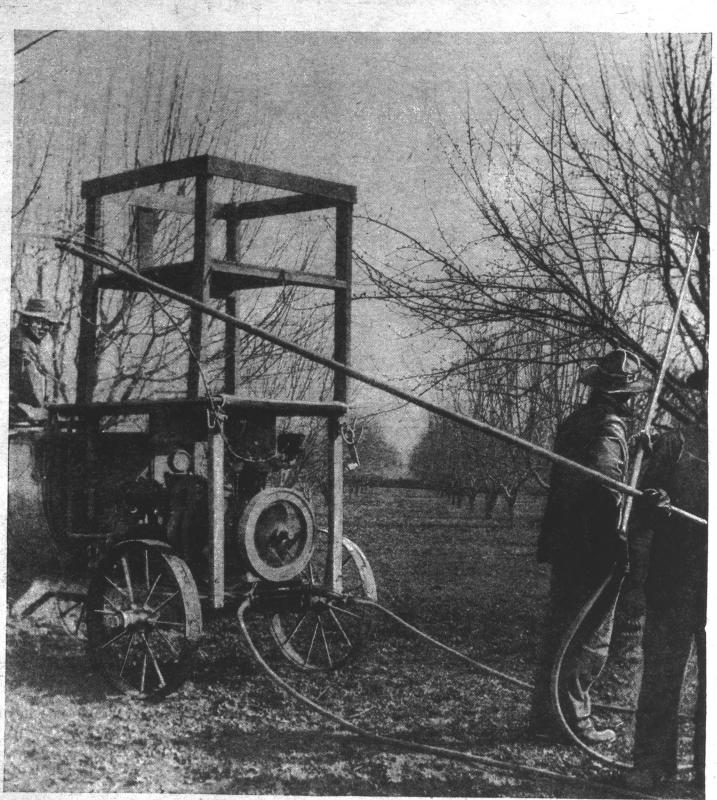


VOL. CLXIV. No. 10 Whole Number 4652 DETROIT, MICH., SATURDAY, MARCH 7, 1925

ONE YEAR \$1.00 FIVE YEARS \$3.00



Eternal Vigilance is the Price of Success

SALARY INCREASE BILL

THE bill providing for a \$2,500 salary increase for congressmen and senators, and large increases for members of the President's cabinet, has reached the President, with prospects that he will veto it. Salary boosts are not consistent with his economy program. The cabinet members say they do not want any increase in salaries, and the belief is strong that if anyone

is to have an increase in salaries it should be the underpaid workers in

MANY WANT GOVERNMENT JOBS.

THERE is an attraction for govern-

small, considering the cost of living in

Washington. Notwithstanding the fact that thousands of federal employes are

losing their jobs as a result of the

President's economy program, 21,000 more persons took examinations under the civil service commission last year

COX ASKS SEED LEGISLATION.

WITH little prospect of securing

merly of the Michigan Agricultural

College, but now of the Federal Seed

Service, Chicago, is asking for the re-

moval of the tariff on Canadian grass,

alfalfa and clover seed certified by the

Dominion Department of Agriculture. and a higher tariff rate on Italian seed, which is not suited to our climate and

is responsible for the low yields of hay

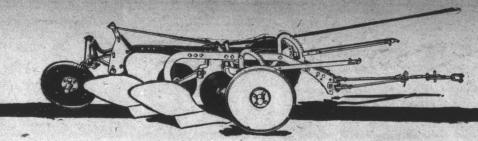
legislation directed toward protecting the seed supply, J. C. Cox, for-

ment jobs, even if the pay of the clerks and typists is comparatively

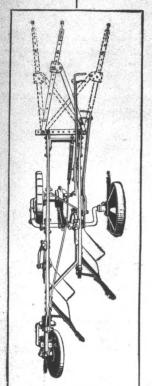
the executive departments.

than the year before.

in many instances.



Every Orchard Needs to be Plowed



Keeping orchards healthy by the proper use of a good plow is the time-proved method. Good plowing feeds the soil with cover crops, banishes mice and insects, kills weeds and conserves moisture.

Do the Job Right-With **These John Deere Plows**

The John Deere No. 45-A, shown above, and No. 26, shown below, are built especially for use with small tractors in orchard plowing.

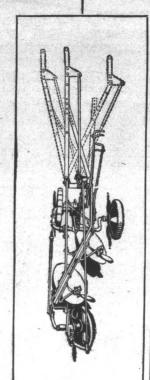
Only 26 inches high when plowing six inches deep and only 37 inches wide, they work under the low limbs up close to the row.

Hitch of each is widely adjustable for offsetting the plow. (Note this hitch feature, also narrow wheel base, in views at left and right.) Stiff hitch tends to hold plow steady when offset.

Both plows have unusual clearance for handling cover crops; simple, positive power lift, sturdy construction, and they pull unusually light.

See these plows at your John Deere dealer's store. Write today for free folder describing them. Address John Deere, Moline, Illi-

nois. Ask for folder 171-222



PURNELL BILL PASSES.

THE Purnell bill, providing larger appropriations for state agricultural experiment stations, has passed both houses of congress, and is awaiting the President's signature.

The purpose of the bill, according to to Senator Ladd, of North Dakota, who backed it in the senate, is to provide for more thorough research in marketing, home economics and rural life. Under the terms of this bill each state experiment station will receive \$20,000 during the next fiscal year, with an increase of \$10,000 yearly for four years Please Mention The Michigan Farmer When Writing to Advertisers and a maximum of \$60,000 a year thereafter.

POSTAL INCREASE COMPROMISE.

COMPROMISE postal pay and A rate increase bill has been agreed upon by the house and senate, which provides for a two cents service charge on all parcels post packages, and a new "special handling" service for parcels post, to be charged twentyfive cents a package. The farm organization representatives protested vigorously against this increase in parcels post rates. The senate tried to eliminate it from the bill, but the house forced its restoration to the bill which reaches the White House. In recent years the senate has shown far greater consideration than the house for the interests of the rural people.

SOUTH AGAINST OLEO LAW.

GOVERNORS of several southern tates are threatening dire punish ment upon the western dairy states that are attempting to restrict by legislation the sale of oleomargarine. The states in which they say legislation is pending that would put a prohibitory license on all oleomargarine manufactured and sold in imitation of butter, are Wisconsin, California, Idaho, Missouri, Ohio, Oregon and Utah.

He that goeth about as a tale-bearer revealeth secrets; therefore, meddle not with him that flattereth with his



PULVERIZED LIMESTONE

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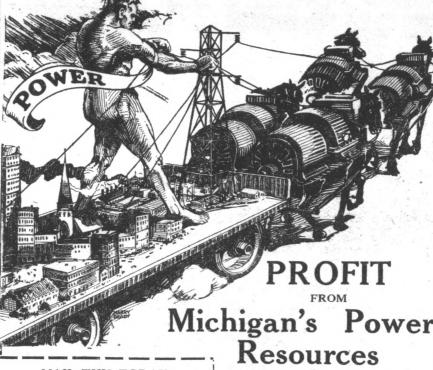
Built like an automobile in one of the largest sprayer factories in the world. Every part mechanically perfected, simplified to give utmost performance, yet easily accessible.

asily accessible.

Nearly fifty models, ranging in capacity om 3½ to 16 gallons per minute, with 300 s. pressure guaranteed. Our small utifits are as efficient, as highly deloped, as our big Triplex Sprayers. vary in capacity only

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MICHIGAN SECTION THE CAPPER FARM PRESS

QUALITY RELIABILITY SERVICE

NUMBER TEN

Early Potatoes for Southern Michigan

The Potato Improvement Program has Made it Possible to Grow Early for Market

By J. W. Weston

Potato Specalist M. A. C.

HE possibility of growing an early variety of potatoes in Michigan for table stock purposes been demonstrated by several growers in Wayne county. It has been proven that practically as good yields can be secured from the early varieties as from the late varieties, if approved methods are followed. These approved methods necessitate the use of, first, good seed; second, plant food in form of fertilizer and humus, and third, thorough spraying for control of insects and foliage diseases.

If the growers in Wayne county can obtain satisfactory yields, it follows that in a majority of the southern counties of Michigan on soils adapted to potato growing, early potatoes can be grown sufficient to take care of the August and early September demands and in favorable seasons can get the potatoes on the market by the middle of July. In Ottawa and Kent counties last year very satisfactory results were secured with early potatoes. We must remember that last season was an exception for large yields of both the early and late crop of potatoes.

The early potatoes going on the Detroit market last year received favorable consideration, selling in competition with Virginia and New Jersey stock at considerable of a premium. Local home-grown potatoes freshly dug are more attractive and edible than potatoes dug green and shipped long distances in the hot weather of summer. At least this impression exists and is recognized on many of the large markets of the country, quality and grade considered.

Date of Planting.

The planting date of early potatoes is nearly a month earlier than the average date of the last killing frost. The dirt immediately following this cool period by use of a weeder run crosswise of the rows. Covering of the plants when just appearing also helps to control any weeds that may start between the hills, the potatoes coming

right along through, while the weeds stay buried. Soils Best Suited.

The type of soil has a considerable influence on the earliness of the development of the plants. A sand or light sandy loam is best. Sandy loam usually produces a better quality of potatoes than heavier soils do. It has the advantage of remaining in a more mellow condition during the growing season, thus giving the tubers a chance to develop normally, and makes it easier to dig the crop. Humus is probably the greatest limiting factor in potato soils. Humus is organic matter in various stages of decomposition, composed principally of roots and tops of plants, obtained principally from barnyard manure or as green manures from crops planted especially for this pur-

Several demonstrations conducted by the Soils Department of M. A. C. have proven that good results can generally be expected by the application of some high test commercial fertilizer applied at the rate of about 500 pounds per acre in the row instead of broadcast, or larger amounts may be applied broadcast. The growing of early potatoes invites the use of fertilizers on account of the relatively higher prices received for this crop.

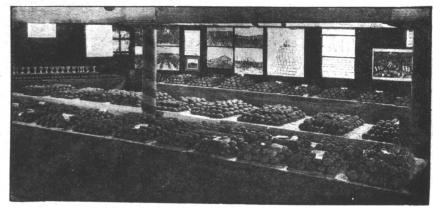
What Varieties Shall we Use?

The early varieties recommended three southern tiers of counties in for Michigan planting are the Irish

The opportunity for an early potato market may be gained by looking at the figures which represent the car movement of potatoes into Detroit from June 1 to September 30, the period when Michigan-grown potatoes of quality are least in evidence. In 1921 over 800 cars were shipped into Michigan. Ordinarily we may say Michigan takes close to 1,000 cars of potatoes a year shipped in from outside, a majority of which may be grown in the state. In 1922, 440 cars were shipped from New Jersey. New Jersey is the chief competing state as her potatoes mature or are dug about the same time that Michigan growers can mature a crop of Irish Cobblers. New

growers of early potatoes in southern Michigan show that the plants can be protected against everything except drought. In 1923 a local spray pump company, believing so thoroughly in the opportunities for early potato production and efficiency of the spray program suggested for these demonstrations that they donated a machine for demonstration purposes, with the result that the net profit per acre of Irish Cobblers was increased by sixtytwo and one-half per cent.

In 1924 Ralph Carr, county agent, Wayne county, Dearborn, Michigan, states "that two demonstrations were finished comparing Russet Rurals and Irish Cobblers for early market. In both cases the Cobblers made the same yields as the Russets, 200 bushels per acre, and were on the market one month earlier. On the market the Cob-



An Unusually Fine Exhibit of Potatoes, as Shown at the M. A. C. During Farmers' Week. In Selecting Seed Potatoes for the Early Crop, it is Desirable that Type be Considered.

Jersey is waking up to the fact that blers brought \$1.25 per bushel and the in early and mid-season potato produc-

The writer attended the New Jersey State Farm Products Show at Trenton, on January 14-15, 1925, and at a surprisingly well attended State Potato Growers' Association meeting, listened to a discussion of potato problems of New Jersey, and one problem which was mentioned in particular, was the development of the growing of early potatoes in Michigan which would necessarily reduce the cars they could expect to ship to us in the future. Their chief problem now is one of diversification. Crops that can be consumed in their own territory for home consumption as they are being squeezed out of the potato game by the growers in Virginia and the south, by Long Island on the north, and by the developlate varieties probably will be planted the markets in their own section for harvest later in the fall and early winter. Some of Michigan's good seed of the White Rural and Russet Rural variety may go into New Jersey, but all of the Irish Cobbler seed could be used in Michigan where a market is available for all its increase.

Spraying is Essential.

Spraying is mentioned as the third item of importance in early potato production, but it might be well to say it is the most important as it would be useless to get good seed and fertilizers then have the plants destroyed by insects and foliage diseases.

The following demonstrations that have been conducted by the successful

Michigan is aware of her opportunities Russets seventy-five cents. The Detroit market has given the Irish Cobblers an enthusiastic reception and their success in this locality is assured. Our results so far indicate that the Irish Cobblers yield as well here as any variety, and can be marketed when the market is relatively at its highest."

This one qualification should be made, that these potatoes were thoroughly sprayed and that certified seed was used. Irish Cobblers are probably more subject to degenerate diseases and are not so hardy as the Russet Rural and without the use of good seed and the thorough spraying would not stand up to the Russet Rural variety. However, with the increased price one can well afford to grow the Irish Cobbler for the earlier market and get good pay for the trouble of ment of the early and mid-season po- spraying. A detailed description of the tato crop in the central west. More insects and diseases which affect early potatoes most seriously might prove of interest.

The Troublesome Flea Beetle.

Insects affecting the early potato crop most seriously are the leaf hoppers and flea beetles. The flea beetle apparently attacks the potato plant while it is still small, causing the greatest loss in preventing rapid growth. This insect eats away a large portion of the leaf surface by making small holes, similar in appearance to the shot hole effect on cherry leaves, so that often fifty per cent of the leaf surface may be destroyed and still the grower not notice anything wrong with the leaves because the shape of the leaf may be intact. It is second only (Continued on page 313).

Well-fertilized Soil is Eessential in Growing Early Potatoes. In the Abo Field the Fertilizer Drill Failed to Work on the Two Rows in the Fo ground. While Good Crops Grew at Either Side, These Produced Little.

Michigan and the land adjacent to Cobbler and Early Ohio. At present subject to frost much after the tenth earliest planting date would probably be near the tenth of April. The number of days from planting to harvest-

Lakes Michigan and Huron are not, the Irish Cobbler has preference and seed can be secured in carload lots in of May. As it takes less than one Michigan. The Michigan Agricultural month for potatoes to come up, the College Inspection Service inspected and certified 16,685 bushels of this variety this year and only 530 bushels of Early Ohios. The demand for this seed ing of the early crop varies from outside the state as well as within the eighty to 100 days. Earlier plantings state, is increasing. Seed of known may be made where facilities are at origin may be obtained from the Seed hand to cover young plants with a Department of the Michigan Potato light covering of dirt thrown over Growers' Exchange, Cadillac, Michigan, them by means of a wheel cultivator or through the Michigan Potato Prowith disc attachment and then remove ducers' Association at East LansinMICHIGAN SECTION THE CAPPER FARM PRESS



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DETROIT, MARCH 7, 1925

CURRENT COMMENT

Our Farm Women.

D ATA was recentcently published showing that there are 9,000 women farmers in Michigan. Of these, it is stated that

twenty are farm managers. These nine thousand, we presume, are those in spinsterhood or widowhood, who run their own farms. They are to be commended for their courage in taking full responsibility in the front line in the great and precarious battle of food production. But what of the other two hundred thousand farm women who are not counted in?

Are we sure that all the women farm managers are included in that count? May there not be many who take a greater part of the burden of keeping things going, as Hy Syckle's Sofie Are there not thousands who could show that their management of such parts of farming, such as raising chickens, making butter, etc., is what is bringing in the living, and something besides?

There is much truth in the saying, "What is home without a mother?" But there is also truth in, "What is a farm without a woman?" A woman is a necessity on the farm. But nine thousand women have found that men are not necessary for their farm operations. At least, they can hire the necessary man labor to take care of such work as is not advisable for women to do. But can a woman be hired? She can, but it rarely works out satisfactorily. To have things work out right, woman ought to be a part of the family. She should be mother, for usually only mother can satisfactorily handle all the intricate responsibilities which devolve upon the farm woman.

A Strict School

his head. His complicated business, meeting up with ever

changing conditions of weather, markets, the ups and downs of general business, shifts of population, and various other factors, require constant readjustment of his farming enterprise. Shaping his task to render the greatest service to society and to gain through this service the largest returns to himself requires thinking of the highest order.

All of this mental exercise returns

personal development of the farmer. He lives in a real school which gives every encouragement for constant study. In fact, it is the most fascinating sort of school, since much of the subject matter is studied first hand.

This school is typical in that the rod is also there. Punishment is meted out. The man who refuses to get hislessons, is refused a portion of the income which he would otherwise receive from his farm operations. It is a school in which you cannot shirk and get away with it.

What Of The Villiage

A BOUT one-fifth of the people of the United States live in villages, while 30,000,-000 other peoplefarm folks-use these

villages for purposes of business, education, health, religion and social wellbeing. In America, these villages are usually unattractive, and not infrequently, they are exceedingly ugly.

Much superior to these, are the villages of older countries. The character of their streets and public buildings, their recreation spots and approaches are attractive often to the point of fascination.

But, a start is being made in the improvement of the villages of this country. The department of agriculture has been studying the problem of village planning to the end of making them more serviceable to the people of the village and rural constituencies.

Has an attractive trading center a stabilizing effect upon its rural people? Here, where rural folks have their chief contact with the outside world, such features as attractiveness, conveniences, service in the way of recreation, as well as educational and economical advantages, would actually contribute to rural life, make farm folks more satisfied with their lot, and, thereby, add to their business success. This proposition is a matter of moment. While subtle in its workings, it contributes much, even in a business way, to both farmers and merchants.

From records and observations, it would appear that in each of those villages where something worth while has been done to make them attractive and more useful to their patrons, some public spirited individual has usually been responsible for the improvement. In behalf of the farm folks of Michigan, may we not here extend to these patriots the gratitude of the rural people of the state, and express the hope that their numbers may be multiplied.

Scouting And Club Work

activity, while club work is distinctly a rural boy proposition. Both are laudable

movements which tend toward developing a more useful and enjoyable boyhood and its resulting higher quality of manhood. Their influences in modern life can not be estimated, but we are sure that every boy who engages in their activities will have better moral fiber and greater general usefulness than without them. They are fundamentally makers of better men.

The one outstanding thing regarding these organizations is that one is distinctly urban while the other is distinctly rural. On the other hand, de-THE farmer should spite the fact that the activities and teacher. That rundamental lact min never despair of influences of the city and rural boys never be changed. But we would be in a mighty bad plight if some people sight of the fact that both are boys, did not leave us records of what their and being that, they, in common, have youth's visions, desires and tempta-

> Scouting develops in a boy his desire to commune with nature, it gives play to his charity instinct, it gives ers' experience. It would be disastrous him a good conception of the brotherhood of man, and fills him with ro- us would enjoy the conveniences of mance by appealing to his frontier in-

Club work makes a boy more useful, for it teaches him the fundamentals of success in farming. It teaches him our modern conveniences are based. adequate recompense in the form of good citizenship and makes him for

ward-looking, but it lacks the romance farmer worse, but often has made a of scouting or its "help others" influence, just as scouting lacks the practical influences of club work.

Would it not be to the advantage of both institutions if they would unite on a common program supplanting the weaknesses of one by the strength of the other? It seems that such an organization would give the boy a well rounded training. But it would do more. It would give the city and the country boys more in common. It would give them a common meeting ground which would help to break the barriers that now exist between the city and country. To work together in such an organization would teach the coming generations to understand each other better, thus opening the way to urban and rural cooperation for common welfare.

Our Potato Acreage

HIS past week a number of farmers have told us that they intend reducing their potato acreage this year. This, it is

assumed, is a general feeling among potato growers throughout the state, unless it be where the early crop is being considered.

Last year the acreage planted in this country was four per cent below that of 1923 and fifteen per cent below 1922. But, the production was considerably in excess of the demand because of a most favorable season, the average acreage yield being eleven bushels above the largest yield previously harvested in the United States.

This yield of 124.2 bushels per acre is twenty-five bushels above the previous ten-year average. Should we secure as much as 110 bushels per acre in 1925, which would be an unusually high average, we could increase our 1925 acreage by five per cent and still grow only enough to provide for a normal per capita consumption.

Better Book **Farming**

PERHAPS the one who visions a book farmer as a bespectacled individual with a book in his left hand while his right

guides the plow as per instructions therein, may not be far wrong.

Book farming really isn't what it used to be. You can't poke fun at it any more because these book farmers no longer try to manipulate the cow's tail instead of its udder to get milk. It seems that these college men who put on real fighting clothes and actu-S COUTING is dis- ally get out and get their tinctly an urban have changed notions some. ally get out and get their hands dirty

Lately an interesting thing has happened. A young man, city bred and with but two weeks of farm experience in his life, has become a cattle judging expert without having had cattle to judge. He learned it all in books and did the job so well that he won first honors in cattle judging at the fair last fall, and second in the high school students' judging contest at the college this winter.

That boy knows cows perhaps better than seventy-five per cent of the farmers who have never delved into book knowledge on the matter. He even knows how a cow kicks, having learned even that from a book.

It is true that experience is a great experiences taught them. Few of us know the dangers of dynamite, the lightning stroke, or certain gases, through our own experience. We have learned them from the records of othfor each to learn it himself. None of today if someone, perhaps hundreds of years back, had not through experience found out and recorded some fundamental facts upon which many of

Good reading never made a good

poor farmer better. We are fast becoming to realize that a book or an article on, for instance, "Corn and Hog Correlations" might have something in it that will actually help us to make more profit from our hogs. Book farming is getting in better repute every day, we are glad to say.

The Big Thing

THE sculptor takes a rough block of marble and by inspired labor, fashions out a beautiful piece of statuary. This is call

ed genius. He creates something that represents an ideal. This idea first existed in his own imagination. The composer and author are also creators.

The live stock breeder takes his raw material, his living, breathing subjects, animals, and by careful mating, selecting and developing, changes them to conform to his ideal; but, he, too, must have that ideal before he begins. The inventor conceives first in his own mind a complicated machine that, when produced, accomplishes the work of many men. The engineer applies his genius to harnessing some of the forces of nature and creates vast power for man.

Who will say which of these is the greatest genius? Who can say which one most benefits mankind?

Mister Misses

GUESS the Honorable Mr. Syckle is playing Put and Take somewhere, as he is not here in time to write his usual spasm of foolishness for your paper. So, naturally, I have to do it for him.

You know, Mr. Syckle is my husband, my life encumbent. I suppose to many of you he is considered quite a man of esteem. Well, be that as it may, I have to admit that he is a sort of specialist, and he is, I admit, quite proficient in his specialty-that of minding other people's business.

He must be proficient in this, for he spends much of his time in town where



he displays, I am told, news gathering faculties which put the reporter to shame. In fact, I understand the reporter comes to him as fountain-head for such "personal" items as never ap-

pear in print, but are amazingly interesting. Because of his ability in this, I am always invited to such gatherings of women where things are sewn for the poor children whose parents do not know how to live as we do in civilized America.

In the last issue, Hy said that he really did think once in a while, that is, if I let him. I admit he is a thinker. That's about all he does, is think. He thinks about things longer than anybody I ever knew, before he does it, and then most of the time he decides not to do it.

Every time I have to write this, I swear that I won't devote any space to Hy, but rather to some worth while public question, such as "Should a Woman Cook What a Man Wants, or Should a Man Eat What a Woman Cooks?" I think worthy subjects are better for discussion than men. The fact is, that every time I look at Hy, I absolutely lose all my faith in the rib theory of woman's origin. I think science will prove in time that man is accessory to woman, for is not man born of woman. And is he not like the rooster who struts around and does nothing but crow? It has been proven that hens work just as well when the roosters are not around, and, in fact, are much more contented. Is this not so among humans: are not men the chief cause of discontent among women?

SOPHIE ABIGAIL SYCKLE.

KETT TELEVISION

The Farm Vegetable Garden

A Gooa Source of Profit and Health By Geo. E. Starr Vegetable Specialist at M. A. C.

T has been well stated that life on different standpoints. First, as a vocation, and second, as a manner of living. In other words, many people are living on farms not so much for the sake of gain, but for the reason that they like the farm life, and enjoy the country surroundings.

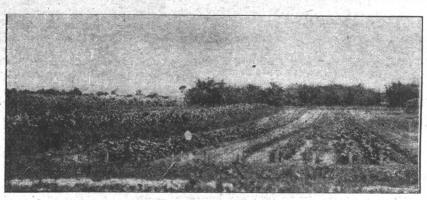
It is not the purpose of this article to discuss the advantages of country versus city, but to point out to the man who is already sold to the idea of living on a farm, some of the means by which farm life may be made still more pelasant, healthful and attrac-

There is no one thing which adds more to the health of the family, and

Another mistake is made in not plana farm may be considered from two ning the work properly. The garden crops have just as definite a value as gainful occupation, a money making the main farm crops and should receive equal attention. The work should be made a part of the regular farm routine, carried on during the regular working hours, rather than leaving it to be done in odd moments.

To get the greatest good from the garden it should be located near the house. Not so that all the labor may be left to the women folks, but so that the housewife may have quick access to the vegetables when preparing a meal instead of depending upon the man of the house to bring up some vegetables if he remembers to do so.

As we have previously stated, there is much economy in labor to be gained which tends to make life on a farm by having a well thought-out garden



The M. A. C. Gardens in which Mr. Starr's Test Plots Are.

more worth living, than a well planned plan. This should be drawn on a good and carefully tended vegetable garden. It would not seem that it were necessary to suggest this to a farmer, but a day's drive through almost any agricultural section of this state will show that a first class garden is the exception rather than the rule on the average farm.

There are a number of reasons, excuses if you will, why this may be true. Some of us will plead lack of Others will maintain that it is cneaper to buy the necessary vegetables than it is to raise them, while still others have neglected to inform themselves as to the value of the daily use of vegetables in maintaining the health of the adults, and promoting a strong, vigorous, well-balanced growth in the younger members of the family.

To the first group, I would say that a well planned garden may be cared for with great economy of time and labor. The second group, regardless of the correctness of their theory regarding cost, seldom purchase an adequate supply, and the family is usually forced to do without. In many communities, it is not always possible to procure fresh vegetables from the store, and when it is possible, they are often inferior in quality compared with what might be grown in a home gar-

All things considered, it is pretty safe to say that no plot of ground on the farm, of equal area, will produce In order to provide for proper rotation, as much value in dollars and cents as a well tended garden. It will go far to reduce the living expenses of the family, and in addition there may be considerable income derived through the sale of surplus products.

There are a number of mistakes frequently made which have a tendency to reduce the value of a garden. The first one is in making a plan which covers too large an area. It may bethat when the first warm days of springtime arrive, in the first flush of enthusiasm we will plan a larger garden than we can properly care for. In course of time the rush of farm work comes on, the weeds in the garden get the start of the vegetables, and we despair of trying to clean them out, and let the whole thing go.

grade of paper so that it may be filed for future reference. A well drained plot should be selected, as near to the house as possible, and if it has a southern slope, so much the better. The dimensions of this plot may be ascertained, and the plan may thus be drawn to scale.

First of all, one should decide upon just what vegetables are to be included. It is not necessary to plant everything one finds in a seed catalogue, but rather make a choice of the kinds that the members of the family like best. Call the family into consultation, and make them all feel that they have a share in the garden.

As far as is possible lay out the rows of suitable width so that much of the cultivation may be done with horse drawn tools. Use every means to eliminate hand work. _If this is done, it will be no hardship to come up from the field an hour earlier on one day of each week and run through the garden while the horse is still hitched to the cultivator.

Leave a generous space at one side of the garden for the perennials, rhubarb, asparagus, and some of the savory herbs. Next to these may be planted the berries and small fruits, then may come the annuals.

It is quite likely that, when once the garden plot has been located, it will not be changed for a number of years. a certain portion should be seeded to clover each year. It is not from the standpoints of maintaining soil fertility, and controlling insects and plant diseases that any one crop be planted twice in succession in the same place. By referring each year to the plan of the preceding year, these changes may be provided for.

It is a good plan to lay in a supply of labor-saving garden tools. A hand seed drill, and a wheel hoe are almost necessities. A good steel rake is one of the best tools for killing weeds in the seedling stage. A stout garden line will aid in laying out straight rows, and there is nothing more important in assisting to quick, clean cultivation than to have the rows per-(Continued on page 316).



were once demanded for shoes used upon the farm, now good looks, too, are found in the same shoes. For Thorogood Shoes have successfully combined the two - good wear, good looks; adding good looks to an already famous wearing quality. Skilled shoe designers have produced a line of Thorogoods for men and boys, which meet every farm condition, no matter what the requirements are in soil or weather. Soles of toughest top grade oak leather are used. Soft double tanned uppers of high grade leathers, made more pliable and better looking with two final oil dressings. Double stitched and re-inforced where the most wear comes, a Thorogood Shoe is known as "the work shoe with the dress shoe finish".

Next time you're in town look up the Thorogood Shoe dealer and find just the pair you've been looking forstrong enough for everyday—dressy enough for town. Yet they cost no more than ordinary shoes.

Thorogood Shoes for men and boys are manufactured by ALBERT H. WEINBRENNER CO. MILWAUKEE, WISCONSIN Distributing Branches:

Pittsburgh



The

Work Shoe

with the

Dress Shoe

Finish

Sampson, Half Double Oak Sole, Nailed, Soft Toe, Full Vamp, Leather Counter, Grain In-sole, Munson Last.



forstock

"Loose salt with rations regularly—in addition. keep it before all of your stock all the time"

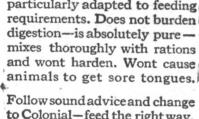
Guard against the danger of "not enough salt"

Even though you are feeding salt, there is danger of "undersalting." Each pinch of salt less than the animal needs takes just that much away from its normal health and from its profitable production.

The animal's health, like your own, depends on digestion. Food cannot be digested until it is broken down by the hydrochloric acid in the digestive juices of the stomach. Salt furnishes this supply of hydrochloric acid and it must be constantly renewed.

Authorities recommend the regular feeding of 1 pound of Colonial Special Farmer's Salt to each 100 pounds of dry feed. Keep another supply of this salt loose before stock always. They wont eat too much. The soft, porous flakes of Colonial Special Farmer's

Salt dissolve instantly. It is particularly adapted to feeding requirements. Does not burden digestion-is absolutely puremixes thoroughly with rations and wont harden. Wont cause



to Colonial-feed the right way, regularly. Watch your animals improve and profits increase. Send for FREE booklet, "New Truth About Salt"-gives valuable information about use of salt on the farm. Send name and address for FREE copy.

The upper microphoto is of grains of ordinary salt. The lower is Colonial Special Farmer's Salt. Note the hard, cube-like structure of ordinary salt and the soft, porous, flake-like form of Colonial Special Farmer's Salt.

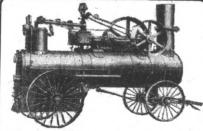
"There is a difference" [

THE COLONIAL SALT CO., Dept. 15, AKRON, OHIO Atlanta Pittsburgh

Mention The Michigan Farmer When Writing Advertisers

There's a Colonial Salt for every purpose"





SAWMILLS-POWER

Farquhar Locomotive Rigs deliver strong, steady power. Dependable and economical. Easy steam

Farquhar Sawmills cut accurate tumber, have large capacity and are easily operated. Built in sizes to suit the power.

Grain Threshers, Hay Balers, Dairy Boilers, Hydraulic Cider Presses, Farm

A. B. Farquhar Co., Limited BOX 412 , YORK, PA., U. S. A.

State Capitol News

Our Lansing Correspondent

RARM bills are receiving their share the Michigan College of Agriculture, of attention in the legislature this Engineering, Arts and Sciences. session. One of the most important rural bills which has passed either branch to date is the measure sponsored by Representative John Espie, cf Eagle, which prohibits bringing untested cattle into any county where the T. B. test has been carried out. The most important provision of the Espie bill is as follows:

"No cattle shall be imported into any ccunty where bovine tuberculosis eradication has been adopted, unless the owner or the person lawfully in possession thereof shall submit to the commissioner of agriculture a proper certificate indicating that such cattle are from a herd tested under federal and state supervision and found free from tuberculosis, or have been subjected to an approved tuberculin test applied by an accredited veterinarian within sixty days prior thereto: Provided, cattle to be slaughtered within ten days may be imported into such counties without test upon condition that such cattle be kept separate and apart from other cattle until slaughtered. A conditional permit therefor shall be issued by the commissioner of agriculture."

Another important provision of this bill prevents anyone from receiving more for a condemned animal than it is really worth. A new clause added to the present law provides that the indemnity paid for any one animal shall not exceed the difference beween the appraised value and the amount received for salvage.

HE senate is not taking very kindly to rural bills. For instance, when Senator Leland's bill to make the federal potato grades compulsory in Michigan came up for final passage in the senate it met unexpected opposition and finally after several senators had spoken against it, it was sent back to the senate committee on agri-This bill is being strongly culture. urged by the Michigan Potato Growers' Exchange and has the support of the Michigan State Farm Bureau, the State Department of Agriculture, the Agricultural College authorities and several other influential groups. Leading potato growers of Michigan are sick and tired of having the reputation of Michigan potatoes spoiled by the practice of a few unscrupulous growers and dealers sending undesirable potatoes to market.

For many years Michigan potatoes have been discriminated against on the principal potato markets because they were practically ungraded, had all sizes mixed together and had a high percentage of hollow, ill-shaped, damaged and diseased tubers. During the past few years considerable progress has been made in improving the quality of the Michigan potatoes placed on the market and it is felt that if this bill could be passed, the product of Michigan potato fields would soon receive as favorable a price as is paid for potatoes from competing states.

NE of the live issues in the house of representatives just now is the proposal to change the name of the Michigan Agricultural College. Representative MacKinnon, of Bay City, has been sponsoring a bill to call this institution the Michigan State College. However, when this measure came up for final passage in the house, it was referred back to the committee. It was evident that the bill could not be passed in the form in which it was presented. An effort is now being made to secure a compromise or amendment which will prove acceptable to a majority of the members. There is considerable talk just now of reporting out a bill providing for naming the East Lansing institution edy.—Sunshine Hollow.

BILLS of particular interest to hunters and sportsmen are being introduced in quantities. One of them Senator Norman B. Horton, of Fruit Ridge, would prohibit hunting by any person, who had not first obtained permission, on any occupied land. This question of unwelcome hunters invading farm property is becoming a very serious matter, especially in the southern part of the state and in communities near large cities. The whole situation was thoroughly discussed at the last meeting of the Michigan State Grange held at Petoskey, and Senator Horton's bill is in harmony with the recommendations adopted by the grangers.

Representative Harold H. Smedley, of Grand Rapids, proposes to put an end to the spearing of fish in Michigan. He not only has introduced a bill making it illegal to spear fish in this state, but has also introduced a companion measure which forbids the sale or exchange of any kind of fish spears in Michigan.

Feeling that the present system of paid state trappers it not producing satisfactory results in the control of wolves in the Upper Peninsula, Representative David F. Morrison, of Germfask, has introduced a bill providing for \$10 bounties on wolves over six months of age, and \$3.00 bounties on wolf whelps.

A MONG the many appropriations bills now pending there are two rather minor measures of especial interest to Michigan farmers. One is a bill by Representative David H. Brake, of Newaygo county, which would provide a fund of \$5,000 for research and field work in the eradication of diseases of bees. If this bill is passed no doubt the greater part of the fund will be used in an attempt to stamp out foul brood in Michigan.

An appropriation of \$100,000 a year for county fair premiums is proposed by Representative Denis G. Clancy, of Hillsdale. In the past, the state has aided county fairs to the extent of \$75,000 per year.

N line with the popular sentiment that some changes are needed in the present primary election law, Representative Charles Evans, of Tipton. is sponsoring a bill providing for party enrollment and for pre-primary conventions. If this bill were passed, a pre-primary convention would be held before each primary election. The choice of this convention would automatically have his name go on the primary ballot. Any faction which was dissatisfied with the outcome of the convention could place the name of their favorite candidate on the ballot by petition, as is done at present.

Representative Ate Dykstra, of Grand Rapids, proposes that no candidate for state or county office should be declared the nominee of his political partly unless he shall receive a majority of the votes cast at the primary. In case no candidate receives a majority, the two candidates who receive the highest number of votes would run at a second primary election which would be held one week after the first primary. The purpose of this bill is to prevent a candidate running as the choice of his party when he is in reality favored by only a minority group.

Patrick McDoogle's kind gentle bull, Imperial King Butterboy De Hardkol, butted him down in the barnyard yesterday. The hired man massaged De-Hardkol on the nose with a two by four of hardwood and avertel a trag-

REPAIR TOOLS ON THE FARM.

"Man without tools he is nothing, with tools he is all."—Carlyle.

FORTY years of observation leads me to believe that the average farm is poorly equipped with repair tools. Not as much as a good sharp axe can be found on some farms. If I could have but one tool I would choose the axe. The first tool used by man was an axe made of stone, it is the fundamental tool.

In grandfather's day, a set of farm implements consisted of plow, spike-tooth-drag, wagon, harness, and a few hand-tools, as rakes, forks, hoes, and scythes. So about the only repair tools required were an axe, monkeywrench, jack-knife, a chisel, a brace and bits.

The cotton planter's farm implement equipment was even more simple, for it included only a one-mule plow, part of a harness, and a hoe.

With the present-day implement equipment, which may include tractors, motor trucks, automobiles, wind-mills, gang-plows, disc-harrows, planters, drills, binders, huskers, and threshers; it stands one in hand to have good facilities for making quick and inexpensive repairs.

We all know of men who spend many a half-day every summer going to and from town and paying someone a dollar an hour on repair work, that they could do themselves at home in half the time that they spent on the road, if they had tools with which to do the work.

Tools most needed, are axe, pocketknife, monkey-wrench, claw-hammer, hand saw, steel square, cold-chisel, files, screw-driver, wire pliers, punches, jack-plane, draw-shave, wood chisels, brace and bits, a grind-stone or emery wheel, two saw-horses, and a workbench with vise attached.

The most useful and economical vise for farm use is a regular blacksmith's vise. Small cast-iron vises are too fragile to be of much use.

Outside of work-bench and saw-horses, which one can make for himself, the cost of the above mentioned tools is about \$25 at present Chicago prices. Six per cent interest on the above cost is \$1.50 per year. Saving of a half day in a busy season more than pays it.

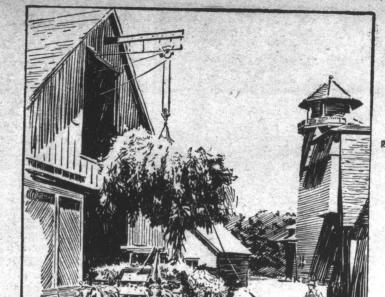
The more mechanically inclined farmer might add to the above list such tools as, forge, anvil, drill-press, hack-saw, pipe wrenches, jack-screws, taps and dies, spirit level, trowels, soldering outfit, and cobbler's outfit.

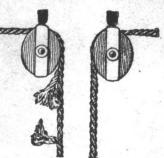
A certain amount of raw materials for repair work is as essential as tools. Inch boards, 2x4, 4x4, 2x6 and 2x8 scantling are of frequent use. Nails, from carpet tacks to six-inch spikes, but mostly 8d. size. Screws, rivets, bolts, nuts, washers, wire and hoopiron. Paints, linseed oil, turpentine, putty and glue.

Farmers need to bear in mind that city wages are excessively high when compared with his own, so that it is good business on his part to do his own repair work in so far as possible, so that he may retain those high wages for himself. Farmers are obtaining fair prices for their products, but have to pay too much for what they buy.—A. N. Clark.



"Time the Harness Was Olled."





Two ropes bought at the same time, used just alike. One is ruined; the other—H.& A. "Blue Heart" Manila—is still strong. It pays to buy really good rope

The test of your money's worth in rope

After all, it's service you pay for when you buy a rope. The amount of hay that rope will put in the barn, the other jobs it will do around the farm; that is the real test of your money's worth.

And that is why it always pays to buy the highest grade you can find—rope that will wear unusually long.

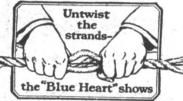
Thrifty farmers know that it is poor economy to buy inferior rope. They know that when such a rope fails on the job, it becomes an expensive economy.

Make sure of getting really good rope for your haying this year—before you buy.

Untwist the strands. If you find a thin blue thread marker—the "Blue Heart"—running

H. & A. "Star Brand" Binder Twine

evenly spun from carefully selected fibres, is of full yardage, and has ample strength for binding purposes



in the center between the strands, then you may be sure of these facts.

What the "Blue Heart" signifies

The "Blue Heart" marker means that the rope is genuine H. & A. "Blue Heart" Manila spun from high-grade, pure selected manila fibre by rope makers with over half a century's accumulated experience.

It means also that in any size, on any job, the rope will wear longer and deliver without fail the strength you have a right to expect. For the selected fibres of H. & A. "Blue Heart" Manila Rope are drawn, spun, laid and properly lubricated so as to insure the smooth working of every fibre, yarn and strand.

Buy rope scientifically. Know beforehand what you are getting. Untwist the strands and look for the "Blue Heart" —our registered trade mark that assures you of dependable rope value.

Guarantee

H. & A. "Blue Heart" Manila Rope is guaranteed to equal in both yardage and tensile strength the specifications of the U. S. Government Bureau of Standards.

The Hooven & Allison Company
"Spinners of fine cordage since 1869"

Xenia, Ohio

For sisal rope

For other jobs where highgrade sisal rope is wanted, use the best—H.&A."Red Heart" Sisal Rope—spun from selected sisal fibre by the same skilled rope makers

用 B A B

H&A "Blue Heart" Manila Rope

(5) 1925, The Hooven & Allison Co.

Trade Mark Reg. U. S. Pat. Office

Special Offer!

This coupon with 30c will entitle you to our special Halter Lead made from H. & A. "Blue Heart" Manila Rope. It is ½ inch in diameter, 7 feet long, and is fitted with a snap at one end. It is offered to introduce to you the great strength and wonderful wear-

ing qualities of H. & A. "Blue Heart" Manila Rope.

If your dealer does not carry H. & A. "Blue Heart" and cannot supply you with this special Halter Lead, fill out the coupon and mail it to us with 30c, coin or stamps, and your dealer's name. A Halter Lead will be sent you prepaid at once.

()	

M. F. 3-7

The Hooven & Allison Company, Xenia, Ohio
Enclosed is 30c for which please send me one H. & A.
"Blue Heart" Manila Halter Lead.

My Name

Address

My Dealer's Name



SAVE CLOVER MONEY'S CLOVER Our prices are \$2.00 to \$3.00 lower than most dealers

Write us today for free samples of Highest Grade Home Grown Seed. Our price is surprisingly low. Get our samples and prices on Alfalfa, Sweet Clover, Timothy and all seeds. We can save you big money on your seed bill. Write for free samples, special prices and 52 page catalog. American Field Seed Co., Dept. 131 Chicago, Ill.



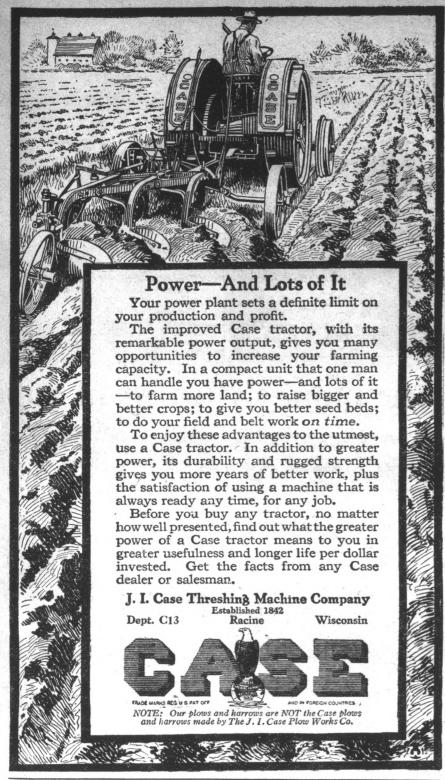
COAL price

in carload lots at attractive prices. Farmer agents wanted. Theo. Burt & Sons, Melrose, Ohio

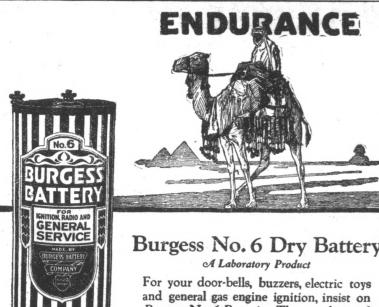


Guaranteed Steel Barn Columns at 25 Percent Under the Market Price

Build a better barn at lesser cost.
Use Dur-econ tubular steelbarn
columns. They are stronger,
more durable, absolutely fireproof. Furnished in 7, 7/2
and 8 foot lengths, 4 inch diameter, complete with flanges. Special
sizes if desired. Ready to install.
By ordering now you save 25%.
WAUKESHA STEEL PRODUCTS COMPANY



Mention the Michigan Farmer When Writing to Advertisers



Burgess No. 6 Dry Battery

Burgess No. 6 Batteries. They are designed with high amperage especially for this service and their shelf life is unsurpassed.

Sold at electrical, hardware, accessory shops, garages and general stores. Insist upon Burgess.

BURGESS BATTERY COMPANY

DRY BATTERIES Manufacturers - Radio - Ignition - Telephone General Sales Office: Harris Trust Bldg., Chicago Laboratories and Works: Madison, Wisconsin

BURGESS BATTERIES

Ionia's Big Round-up

An Armory Packed with Farm Folks who Listened to an Outstanding Program, Rich in Information and Suggestions

big mid-winter farm festival held there on February 19 set a new record for attendance and quality of program for county farm gatherings. Fine leadership and a wonderful exhibition of cooperation between business men and farmers, appear to be responsible for the success. Might we say that the meeting seemed a bit prophetic by giving a taste of what we might expect in the future when all classes in a community work together for the good of the community.

Marketing Expert Speaks.

"Everybody tries to teach the farmer all the good things about products and production, but they forget to teach him how to take these same products and turn them into enough money to buy a decent standard of living for his farm home. Cooperative marketing does this very thing. It tries to teach the farmer, by his own effort, to turn his products into good money.'

In these words, Aaron Sapiro, lawyer, and a foremost exponent of cooperative marketing, opened his forenoon address to a packed house, consisting of over a thousand farm folks. He continued, "The farmer is the only class who throws his products on the market without trying to adjust the supply to the existing demand at that time and place. As long as he sells individually, he merely dumps. But, if farmers sell together, then they can merchandise the crop and control the flow so as to adjust it to demand. In this way only can the farmer hope to get a decent price for the supply that actually goes into the channels of trade.'

To properly merchandise farm crops there are, according to Mr. Sapiro, six necessary steps to be taken. These steps are:

1. Grade and standardize the commodity. He cited how the California egg producers put their product across in spite of handicaps, by proper grading and standardizing.

2. Pack according to approved standards. Both grading and packing must be stressed before Michigan fruit growers will ever get a decent price for the fruit raised on their farms.

3. Extend the market, both in time and in place. We should know what markets can consume the products grown, and then get the people of those markets to actually consume.

4. If people ought to eat more of the products under consideration, then through lectures in schools and before women's clubs, by posters, recipe books and, especially, by advertising, a larger consumption should be promoted.

5. The flow of the supply of products into the channels of trade should be controlled by storage and finance. By this means gluts are avoided and the people have a much longer period in which to consume the products.

6. The last step given by Mr. Sapiro was to make the price depend upon the supply at the point of consumption and not at the point of production.

"These six points form the story of merchandising," said the speaker. "Not one of the points can be worked out He must join the farmer alone. with other farmers and organize along commodity lines, and then go out and merchandize. The manner in which this organization can be affected is the technique of cooperative marketing."

To bring into being an efficient cothe nature of the crop to be marketed, whether it is perishable or non-perishor twice a year, or is constantly being of the class-rooms of the institution, is produced: know the nature of the people who produce it, and thoroughly study the commodity itself before suitable plans for its merchandizing can be worked out. "But," he continued.

ONIA outdid herself this year. The "no matter what the commodity, no matter where it is located, no matter who is growing it, there is no crop in America that can be marketed in better fashion than it is now done."

"There is something fine back of this effort of cooperative marketing. By your own efforts you are going to have the chance to build up life and make it a richer and finer one for the farm boys and girls that are going to grow up after you in the farm homes of America.'

Dr. Butterfield Urges Marketing Studies.

When farmers consumed the products of their own fields and stables, they understood minutely the quality of crops and animals that best met their needs. All the various requirements from planting to consumption was directly under their eyes. In other words, these men, of a time when the farm was nearly self-sufficient, were definitely informed on the marketing end.

Today, it is different, said Dr. Butterfield, in opening the afternoon ses-While we have shifted from growing the things a farm family needs to the production of surpluses to sell for money with which to buy our needs, we have not shifted our business to fully meet the new conditions.

In growing surpluses we have lost sight of the consumer's tastes. Our effort has been to make those surpluses as large as possible. We have watched production only, and have forgotten to inform ourselves of the consumer's wishes or fancies. This is our next big problem-studying marketing.

The Agricultural College has a threefold duty to perform in this connection. It must investigate to learn what the consumer wants, then introduce this knowledge to the class room of the college through the college faculty, and again to the state as a whole through its extension force.

The foundational work is investigational. Reliable data on marketing is needed. The Doctor expressed the hope that soon a complete survey of the vitualizing of some city of 50,000 or 75,000 population would be made to learn the wants of the people of such a municipality. With this information it would become possible for the farmers in a reasonable radius to calculate better what part of the needs of the city could be supplied by the local farms. Such a study is bound to be advantageous to both the farmer and to the city consumers. It should build dependable markets that could pay producers a reasonable price for their products and also give the consumers the best products at the lowest cost.

This investigation should also lead to better community living. All classes should participate—farmers, business men, bankers, wage earners should undertake a community program that comprehends every family. A fair reward for labor is only a means to an end. There can be no permanency to agriculture unless the rewards to agriculture are satisfactory. When Denmark was poor she started the agricultural high schools, which later came the back-bone of her cooperative success. These schools were not merely vocational but highly cultural -art, literature, music being important parts of their curricula.

Class-room instruction work, the secoperative institution, "we must know ond object of the college, is obvious, and needs no consideration, said the President. But the third function, that able; whether it grows once a year, of making the state of Michigan one another matter. Providing continuous education is the big job. He states that reliable figures show 100,000 farm boys and girls between the ages of

(Continued on page 318).

Albany, N. Y. Jan. 18th, 1923

POWER USED ON FARMS.

A PPROXIMATELL STATES A horsepower hours of power were PPROXIMATELY sixteen billion utilized on farms in the United States during 1924. This is equivalent to the labor of half a billion human beings. Yet less than ten million agricultural workers aided by this power accomplished the same quantity of work, said C. B. Kinsman, agricultural engineer, speaking on the effect of traction and electric power on farming in relation to man power and production.

During the past seventy-five years the amount of power used by agriculture in the United States has trebled and during the same period the proportion of agricultural workers to all workers has been reduced from sixtyfive per cent to less than twenty-five per cent. Yet the value of agricultural produce per capita has remained practically the same.

Mr. Kinsman figures that of the sixteen billion horsepower hours of power utilized on farms in 1924, approximately 16.5 per cent was furnished by tractors and 6.5 per cent by electric power.



Dairymen are generally agreed that the present is a most opportune time to weed out inferior cows and intro-duce more efficient producers.

THE DEPARTMENT'S COOPERA-TIVE MARKETING HELPS.

THE department of agriculture, according to Mr. Tenney, only spends \$40,000 directly for that part of its marketing projects which have to do with helping cooperative marketing associations. This \$40,000 is divided between three lines of work:

Making economic surveys.

Sending out experts to audit the books of cooperatives, when asked to do so by the cooperative associations. The study of successful cooperative

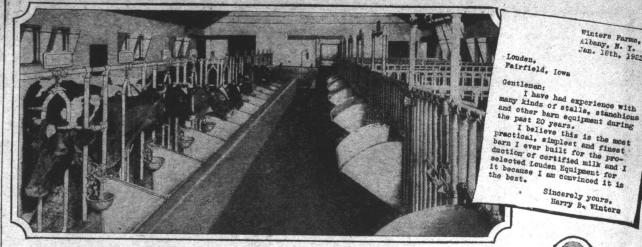
marketing systems in other countries. In the bureau of agricultural economics there is a statistical division in which the bureau keeps in touch with all cooperatives in the country, including records of their organization, the methods of management, amount of business transacted, both buying and selling, failures and their causes. The bureau now has records of over ten

thousand cooperatives. A legal service is maintained in which have been made studies and digests of all state laws and court decisions having reference to cooperative buying and selling.

For the \$40,000 the department has been able to take care of the demands from cooperatives for government assistance.

Mr. Tenney said the present need of the department of agriculture was the securing of marketing specialists trained along commodity lines. The sum of \$150,000 provided for the next fiscal year would be ample for the work required in advising cooperatives, and in sending the commodity experts out to "sell" to farmers utilization of the department's cooperative marketing ser-

There are some men that simply can't be persuaded to go calling, and are always too busy to attend a party or social gathering of any kind because they can't possibly leave the farm. But when the Dairy Show or the International come along they can spare an awful lot of time, and the farm doesn't seem to need them at all.



Piling Up the Evidence

As Director of the Dairy Division of the New York State Department of Agriculture, Mr. Harry B. Winters had an exceptional opportunity to observe barn equipment under all kinds of conditions. The fact that he selected Louden Steel Stalls and Stanchions for his own dairy barns, located one mile out of Albany on the Bethlehem Center Road, is convincing evidence of Louden superiority.

Why have the U.S. Government and thousands of good, practical dairymen in all parts of the country chosen Louden Steel Stalls and Stanchions? One of the biggest reasons is the fact that they are properly designed. Another reason is the exceptionally high grade of material from which they are made.

Comfortable Stanchions Pay Big

The Louden Stanchion holds the cow in her place so comfortably she hardly realizes she is being held. It permits her just that freedom which she must have to get up and lie down without struggling, bruising her shoulders or jamming her knees. Its V-shaped bottom allows it to be used in the feed-saving curb—this alone saves many dollars annually.

Cows have "pasture comfort" in the barn when you use Louden Stanchions. And true cow comfort always brings increased milk yields. Many a high producer has been "discovered" when changed living conditions gave her full ease and rest and let her get every drop of milk and every cent of profit possible from each pound of feed.

The tubing from which Louden Stalls and Stanchions are made is high carbon Open-Hearth steel—the strongest and longest-lasting steel for this purpose. Fittings are of certified malleable iron, with a tensile strength of 50,000 lbs. per square inch. Quality material throughout accounts for the unequalled strength and durability of Louden Stalls and Stanchions.

Correct design and freedom from trouble-making, dirt-collecting attachments have made Correct design and freedom from trouble-making, diff-confecting attachments have made Louden Stalls and Stanchions the neatest looking and most sanitary. And the patented Louden interlocking, dust-proof coupling—smooth on top, with no open crack to catch filth and harbor disease germs—is only one of many other exclusive Louden features.

Get Your Copy of This Booklet

Send at once for illustrated booklet telling all about Louden Stalls and Stanchions. C. J. Kraus of North Milwaukee, Wis. says: "I wouldn't trade the Stalls and Stanchions I bought from you 16 years ago for any other make of today." Fill in the coupon now and mail it.

And if you are figuring on building or remodeling a barn, ask for a copy of the Louden Barn Plan Book—112 pages of money-saving building information for farmers. Shows 50 up-to-date barns with plans. Sent postpaid—no charge or obligation. Check and mail the coupon.

THE LOUDEN MACHINERY COMPANY

1903 Court Street (Established 1867) Fairfield, Iowa Branches: Albany, N. Y. Chicago, Ill. St. Paul, Minn.









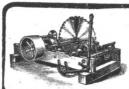
Louden Water Bowis increase nilk flowwithin 24hours. Lengthen the lactation period. Save time and work. Quickly pay big profits. The Louden Line includes Hay Unloading Tools, Power Hoists, Barn and Garage Door Hangers, Manger Divisions, Cupolas, Hog House Equipment, Bull Staff—

"Everything for the Barn"

Send Coupon for Quick Reply Louden, 1903 Court St., Fairfield, Iowa

Send me postpaid and without obligation, information on Louden Stalls & Stanchions
Louden Water Bowls
Louden Manure Carriers
Louden Barn Plan Book

RFD.....State..... I have.....horses



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Grower's Opinion on Grades

Are Fruit Grades Beneficial? By Edward Hutchins

gratifying progress, but the acid test of experience has shown the necessity of some changes and simplifying. The importance of some revision clearly appears in the most excellent contribution of Mr. Essinger, of the Michigan State Department of Agriculture in the Michigan Farmer recently.

Grading Laws Essential.

Beyond question, grading laws are essential. We owe it to the buyers and consumers as well as to the growers themselves that the fruit be put on the market in a reliable and honorable way, so that those who buy and use the apples shall know what they are buying and get what they buy. Under the present rather complicated system of grading in Michigan a considerable quantity of good, merchantable fruit that is marketed in other states, and that people are glad to buy and use, is thrown into the cider class where it has little value, and, what is still more serious, disputes arise between growers and inspectors regarding the application of the grading laws.

Mr. Essinger says truly that there are seven grades in our apple law, and this is too many. Two grades, he says, that are understandable are sufficient for interstate commercial package shipments. As a matter of fact, that is practically about all we now have. The cooperative packing houses may undertake to make more, but they put up only a comparatively small part of the apples picked, and many very good growers because of the inquisitiveness of the inspectors of which they are apprehensive, hesitate to put any mark on the apples which has any definite meaning, and brand them "Unclassified" or "Orchard Run." Either of these marks may cover a very good lot of mixed grades or a very poor lot, and gets us nowhere in establishing a reputation for our fruit.

Michigan Custom.

In the larger part of the apple-growing districts of Michigan probably the apples are sold for the most part to buyers by the growers, and only a small proportion of the fruit is expected to grade "Fancy." Most are sold on a basis of "A" and "B" grades and the first may include the fancies. Buyers refuse to buy anything below these two grades at a price that allows enough to cover costs of packing and barrels, so a considerable quantity of fruit which the grading regulations place in Class "C" are discarded and go into the ciders. The buyers do not object to this condition of affairs, but the growers are not enthusiastic over it. But it is the law. Some buyers who supply a market in smaller towns are willing to take the fruit as it comes from the trees with the cider out, especially if the apples run pretty fair, and such a deal is one that under the present conditions growers are glad to make. In this way a grade goes in that would be thrown out if marked above the "C" grade. Such stock can be marked "Orchard Run" and avoid any possible conflict with the inspector.

It has been my lot of late to spend the winters in the Nation's Capital and I have been interested in the condition of the local apple market here. Right at the present time in some of the grocery stores, apples that would grade 'C" under Michigan regulations, those of fair size and good color and appearance, save that they are somewhat scabby, are selling at ten cents per pound. Across the street are similar apples with clean skins but slightly smaller selling at three pounds for twenty-eight cents. Both of these stores are selling New York Imperials,

ICHIGAN apple growers are en- smaller in size and with less color, at gaged in a most commendable five cents per pound. In other words, undertaking in their efforts to people are taking apples that Michigan standardize their pack and have made places in a fourth grade along with places in a fourth grade along with those that we grade as "Fancy" or "B," without discrimination and paying \$4.50 or more per bushel for them. A few brown spots in the skin which in no way affect the quality of the apples make little difference in their selling value among these consumers. no doubt they are as discriminating as most people in such matters.

Must Be Practical.

It is the part of wisdom to be practical in these things. The usual dope we are treated to is to put up only the very finest grades, a sort of superfine quality, and rule the western box apples as well as everything in the east and south out of our markets. Some go so far as to advise keeping all of the lower grades at home or putting them in the cider class, but as a practical matter of fact, is this wise or feasible? Is it philanthropic? As long as people in such a market as I have described want them and use them without discrimination, and as long as so many of the growers, both at home and in other states, are disposed to put them on the market, is there not more of theory than of practical good sense in such advice?

A speaker at the recent meeting of the Michigan State Horticultural Society in Grand Rapids who runs a line of restaurants outlined the class of apples he requires for baking, and the growers were given to understand that if they want his patronage they must be prepared to meet his requirements. From press comments he evidently made quite a hit. But how large a hole does the baked apple proposition make in the supply of apples? Few hotels or restaurants have baked apples on their tables, but all of them have apple pies regularly. And the lower grades make quite as good pies as the fancy grades, and shrewd caterers fully understand this. And it is interesting to note as well that fresh apples found on the tables of very many first-class hotels and restaurants are of the lower grades, many of them no better than those that growers are compelled to put in the ciders when attempting to make standard grades of their fruit.

Few Grades Best.

Mr. Essinger says, "We could get along with a total of four, "Fancy,"
"A," "B" and "C" grades. And we can get along still better with three. He has already said that two are enough in interstate shipments. Two grades are certainly sufficient for clean apples, and why make two grades of the scabby stuff? It may appear distinguished to talk about putting the western and eastern and southern apples out of our markets by a system of grading, but we have been listening to this for several years and it is getting to be old stuff, but still those sections are shipping to our markets. And as long as competing states all about us are ready to put their low grade and scabby stuff into our markets and our consumers are willing to buy it and use it, what is the sense in our throwing our fruit away? Fruit that is perfectly good in every way save that it. has a few spots that only go skin deep?

Our grading law provides for marketing these scabby apples, but by separating them into two grades it allows the buyers an advantage in ruling them out, and, further, it is the cause of the greater part of the friction between the inspectors and growers. By reducing the number of grades in this way the matter of grading would be simplified and there would be less incentive to dump all grades together and use "Unclassified" or "Orchard Run"

Early Potatoes

(Continued from page 305). to the Colorado Potato Beetle as an enemy of the potato, and, probably on the early potatoes it is more injurious. The potato flea beetle is a very small insect, one-sixteenth to one-twelfth of an inch in length, black, and has the power to jump considerable distances. On approach it disappears so that a casual observer will not discover it until his attention has been called to the insect. The flea beetle passes the winter in rubbish, appears in the spring as soon as the weather warms up and the foliage of trees begins to appear. As soon as the potatoes are through the ground they are subject to the attack of this insect. These beetles that hibernate, feed ravenously until their eggs have been laid, then gradually decrease in numbers. this reason, we notice them in greatest abundance early in the season. The injury not only means loss of leaf surface for the manufacturer of starch, but also serves as a point of infection for early blight injury.

The control of the potato beetle is best held in check by keeping the plants well covered with Bordeaux mixture. Frequent and thorough spraying with this material makes the plants distasteful to the beetles and protects it also from early blight fungous. The Bordeaux mixture should be applied as soon as there is evidence that the leaves are being affected and should continue to be covered through the season so that the leaf hopper that appears along in June will be prevented from making any inroads on the plants and allow them to go to maturity with very little insect injury.

The Potato Beetle.

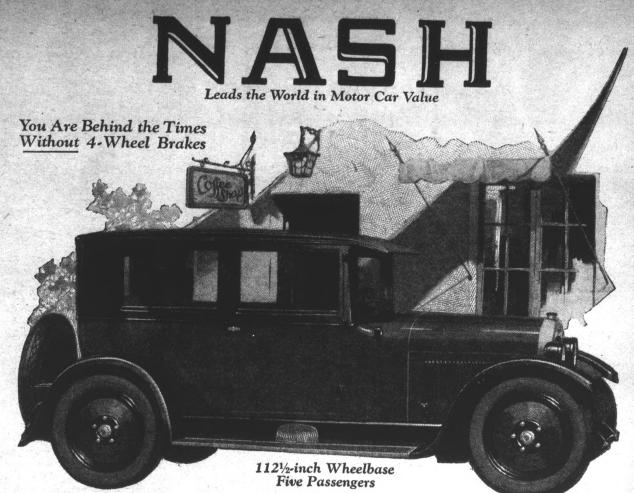
A preparation of Kedzie mixture. calcium arsenate, or some other arsenical in combination with Bordeaux proves efficient in repelling the Colorado potato beetle and may be of some value in the potato flea beetle control. It is believed that the flea beetle either eats so little of the poison or avoids it entirely to make the application of arsenicals alone of little value for the control of flea beetles. However, the combination of Bordeaux mixture and poison has proven very efficient. A high pressure sprayer with attachments to apply the Bordeaux preparation on all parts of the plant at a pressure of from 175 to 200 pounds is going to be essential to successful growing of early potatoes in the southern part of the state. The variety of potatoes planted may assist some but cannot be depended upon to guarantee

Leaf Hopper Toll Heavy.

The injury caused by the leaf hopper is probably greater than that caused by the flea beetle but because the flea beetle comes early in the season during the critical period of the plant's development we have made special mention of its control and the leaf hopper may later cause complete loss of the crop, and control measures are as important as for any other insect affecting the potato.

Trouble called blight by many growers in the southern part of the state is undoubtedly caused principally by injury resulting from the work of the leaf hoppers. It is stated that early varieties in general are more susceptible than late varieties. The best control measures are by the frequent application of Bordeaux mixture of 4-4-50 strength. For efficient control it is necessary to begin the spraying program while the vines are three to six inches high and to maintain a pressure of from 175 to 200 pounds with spraying machine equipped with a boom so that two nozzles direct the spray toward the under part of the leaf and the third nozzle sprays the tops. The leaf hopper feeds on the underpart of the leaf and it is important that this part of the vine be well covered with Bordeaux.

Early Blight. This disease causes loss because it



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prevents a crop of potatoes from be- finding a place on the leaves of the ble of returning. In years when early blight is prevalent the disease may reduce yields as much as twenty-five per cent. Late blight destroys a crop of tubers already produced, while early blight cuts down the possible size of the crop. This disease and hopper burn are largely responsible for the mediocre yields which come from seemingly well cared for fields.

Small (one-eighth to one-fourth inch in diameter), black spots are produced on the leaflets. These spots are more or less circular, except where two or more spots run together. Each spot represents a point of attack of the parasite and marks the place where a spore germinated and entered the leaf. As the fungus grows in the tissue, the cells of the leaf die and turn black. The drying effect of the fungus upon the leaf tissue is represented by lines forming concentric rings about the spot. The "target-board markings" are a means of determining the disease.

No direct rotting or marking is produced upon the tubers by this disease.

The tubers produced on diseased plants are smaller since the yield is reduced on account of the weakened

probably lives over winter on trash, etc., in the soil. It is probably widespread in every field where potatoes are grown and must be recognized as son permits. Spores from the trash

coming the maximum the soil is capa- potato germinate under wet conditions and cause the characteristic spots of the disease. On the diseased spot the fungus fruits profusely, producing the characteristic club-shaped spores of the fungus. These spores in turn are carried to fresh leaflets chiefly by wind and rain and thus from a few spots, countless points of infection result. This story is repeated over and over in the field so long as the weather relations favor infection. A spotted leafilet is weakened and sometimes turns yellow and dies.

The leaves of the potato are the manufacturing organs where starch is made and afterwards carried and stored in the tubers. Anything which interferes with the efficiency of these food-producing organs cuts down the

vield of tubers

The disease, while present in more or less abundance each year in Michigan, is most severe in years when the season is warm and with moderate rainfall. The most severe effects of this fungus in the last few years have come from late attacks in September, and such attacks have been most severe in fields growing on moist locations and in fields with heavy vine growth.

The main control measure consists The fungus which causes the disease of the thorough application of properly made Bordeaux mixture. Spray the plants every ten days or two weeks, beginning when the tops are three to six inches high. Everyone a pest sure to be met with if the sea- should spray when the first half of the growing season is cold and wet.

Grain Show Awards

1925 Exhibits a. M. A. C. Shows Superb Quality

HE fourteenth annual grain show of the Michigan Crop Improvement Association, held at the M. A. C., while being much smaller, both in number of exhibits and exhibitors than in former years, was the same quality show which has characterized it in the past. Members of the association were not able to select quite as good exhibits of corn as when more favorable weather conditions prevailed grain, especially first place winners, was, indeed, of excellent quality.

The call

The college exhibit, "Moving the Corn Belt Northward," was put up at Alma. one end of the room. This exhibit was the one which the college had at the International last December. It pointed out how the corn belt had been moved northward through the follow: ing practices:

ing practices:

1. Increased use of silage has made a demand for more corn.

2. In properly balanced rations corn comprises usually the cheapest and largest part of the concentrates.

3. Good cultural practices, tillage and care of the crop, has made it possible to secure good yields where it was formerly thought to be unprofitable to grow corn.

4. Selection of early varieties has made it possible to grow corn which can be depended upon to mature a crop each year.

First, John Nejenhuis, Hudsonville; And, F. H. Knox & Co., Portland; 3rd, First, First, John Nejenhuis, Hudsonville; First, John Nejenhuis, Hudsonville; First, John Nejenhuis, Hudsonville; And, F. H. Knox & Co., Portland; 3rd, G. H. Roe, Bay City.

Ten Ears of Pickett.

First, John Nejenhuis, Hudsonville; First, John Nejenhuis, Hudsonville; And, F. H. Knox & Co., Portland; 3rd, G. H. Roe, Bay City.

Ten Ears of Pickett.

First, John Nejenhuis, Hudsonville; And, F. H. Knox & Co., Portland; 3rd, W. R. Kirk, Fairgrove.

Ten Ears of Pickett.

First, John Nejenhuis, Hudsonville; And, F. H. Knox & Co., Portland; And, M. J. C. Wilk, St. Louis.

First, John Nejenhuis, Hudsonville; And, F. H. Knox & Co., Portland; And, M. J. C. Wilk, St. Louis.

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First, John Nejenhuis, Hudsonville; And, F. H. Knox & Co., Portland; And, M. J. C. Wilk, St. Louis.

First, John Nejenhuis, Hudsonville; And, F. H. Knox & Co., Portland; And, M. J. C. Wilk, First, Andrews An

5. Fall selection and proper storage of seed assures a good reliable seed

Samples of several different adapted varieties of corn were on display. Rations for pigs, lambs, dairy cows, and horses were shown giving the amount of corn to feed daily along with the different amounts of supplements needed for the best results.

Following is a complete list of the winners in each class at the show:

Ten Ears of Yellow Dent.

First, Elmer Vaughen, Hanover; 2nd, Bruce Kerr, Clark Lake; 3rd, Farley Bros, Albion; 4th, W. A. Wortley, of Rushton.

Ten Ears of White Cap or Any Other

Pirst, Ray Gilmore, Britton; 2nd, Amos Scherip, Britton; 3rd, H. Croll & Son, Britton.

Fifty Ears of Any Variety.
First, Milo Robinson, Union City,
2nd, John Nyenhuis, Hudsonville.

Ten Ears of Yellow Dent.
First, J. C. Wilk, St. Louis; 2nd, D.
V. Bow, Saginaw, W. S.; 3rd, J. A.
Wilk, Alma; 4th, Ted J. Wilk, Forest
Hill.

Ten Ears of White Dent. First, J. C. Wilk, St. Louis; 2nd, Ted. Wilk, Forest Hill; 3rd, J. A. Wilk, Alma. Ten Ears of White Cap or Any Other

Fifty Ears of Any Variety. First, J. C. Wilk, St. Louis; 2nd, Ted Wilk, Forest Hill; 3rd, J. A. Wilk,

Sweepstakes-Ten Ears of Dent. J. C. Wilk, St. Louis.

Single Ear of Dent. First, Lester M. Campbell, Portland; 2nd, Elmer Vaughen, Hanover; 3rd, Fred Shilling, Coldwater; 4th, Milo Robinson, Union City.

Hanover. Four Quarts of Soft Red Winter

Wheat.

First, J. A. Wilk, Alma; 2nd, Ted J.
Wilk, Forest Hill; 3rd, Chas. Konop,
Ewen; 4th, O. B. Shoemaker, Coldwater.

Four Quarts Six-row White Spring

First, Fritz Mantey, Fairgrove; 2nd, Jesse Pickett, Caledonia; 3rd, J. C. Wilk, St. Louis; 4th, W. R. Kirk, Fair-

Four Quarts White Winter Wheat. First, J. A. Wilk, Alma; 2nd, J. C. Wilk, St. Louis; 3rd, D. V. Bow, Saginaw W. S.; 4th, D. E. Turner, Mosher-

Four Quarts of Oats.
First, Jesse Pickett, Caledonia; 2nd,
Ray L. Bow, Saginaw W. S.; 3rd, J. C.
Wilk, St. Louis; 4th, Farley Brothers, Albion.

Four Quarts of White Pea Field Beans.
First, J. C. Wilk, St. Louis; 2nd,
Peter Welch, St. Louis; 3rd, George
and Louis Hutzler, South Mariton; 4th,
R. V. Beardslee, Owosso.

Fertilizer Hints By O. B. Price

OW is the time to consider the spring fertilizer needs on the farm. By placing your order now you will not only be cooperating with your dealer, but you are more likely to get the analysis you want.

When buying fertilizers consider the analysis of fertilizer rather than the brand. A particular analysis may be sold under many brand names. Just because a fertilizer is sold as a "Corn and Wheat Grower," or "Bean and Beet Special," etc., it is no indication that it is best for your particular soil condition. The Michigan Agricultural College is ready at all times to give information regarding the proper fertilization of crops on different types of soil.

Always insist on high analysis fertilizers. A high analysis fertilizer is one containing fourteen or more units of plant food. A low analysis fertilizer contains less than fourteen units. A 1-8-1, containing ten units of plant food, is a low analysis material. A 2-16-2 contains twenty units of plant food and is considered a high analysis fertilizer.

A high analysis fertilizer costs more per ton but less per unit of fertilizing material. Twenty units of plant food contained in one ton of 2-16-2 fertilizer costs \$40.30. Twenty units of plant food contained in two tons of a 1-8-1 fertilizer costs \$58.10. By using a 2-16-2 at half the rate of a 1-8-1, the same amount of plant food will be applied and \$17.80 saved on every ton of 2-16-2 used.

Fertilizers are profitable on most types of soil in Michigan. The points of consideration are, (1) the proper analysis to use; (2) the proper rate of application; (3) the proper method of application, and (4) crops adapted to the soil type.

The use of phosphoric acid is the most important consideration in fertilizing crops on Michigan soils. Both heavy and light types respond to this ingredient. Nitrogen is essential on the lighter types and badly run down heavy types. Potash gives good returns on the lighter types, particularly when used with alfalfa or the clovers.

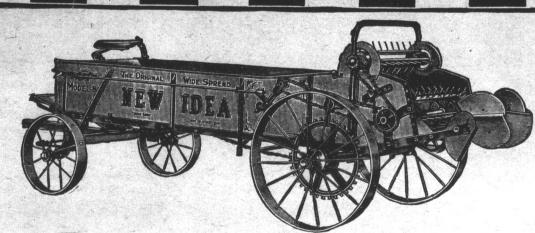
It is a good practice to top-dress wheat and rye in the spring with sodium nitrate at sixty to 100 pounds per acre, or ammonium sulphate at forty to seventy-five pounds per acre just as the plants are emerging from their dormant stage. This practice is particularly good on the lighter types of soil or soils of low fertility. If the soils are alkaline in reaction or have no lime requirement either one may be used. On acid, or sour soils better results will be obtained where sodium nitrate is used.

▲cid phosphate at 250 pounds per acre is usually sufficient for oats or barley when seeded alone. If the crops are grown in a rotation with no manure or green manure in the rotation, a 4-12-0 or 2-16-2 will be better. If alfalfa or any of the clovers are seeded with oats or barley, it is advisable to use a fertilizer containing more potash on the lighter type soils, such as an 0-12-6 or 4-8-6.

A complete fertilizer is one containing nitrogen, phosphoric acid and potash. It must contain all three ingredients. A mixed fertilizer does not necly mean complete fertilizer. It may contain only one or two ingredients.

Fertilizers should be used to cut the cost of production and help maintain the fertility of the soil. It costs no more to prepare the seed bed, plant the crop and cultivate a fifty-bushel crop of corn than a twenty-five-bushel crop. Increase the yield per acre and cultivate fewer acres. This will allow more of the farm to be seeded to soilbuilding legumes.

The farmer with several sources of income is the one who is reaping the largest profits.



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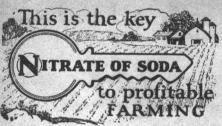
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DETROIT, MICHIGAN



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They seldom do contain that much and the formula does not state its availability. That is why

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Michigan Agricul-tural Experiment Wheat Station reports a gain of 7.47 bushels of wheat per acre from top-dressing in the spring with 100 lbs. of Nitrate of Soda. Virginia Station Bulletin number 221 says, "On wheat crops needing nitrogen an increased yield of 5 bushels per acre can be expected from each 100 lbs. of Nitrate of Soda applied per acre." Demonstrations in Pennsylvania have shown an average gain of 7½ bushels of wheat per acre and 37% increase in the straw.

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The men who know now concede that Cotton must have Nitrate of Soda to make an early crop. It promotes quick growth and early fruiting. 200 pounds per acre at planting time is the proper application.

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in 1924 showed an average increase of \$15.74 per acre from the use of Nitrate of Soda.

Ohio and Virginia Cobacco Experiment Stations report wonderfully profitable gains from the use of Nitrate of Soda on tobacco. Our owne demonstrations in Pennsylvania prove that 200 lbs. of Nitrate of Soda used at planting time will add 100 lbs. or more tobacco to the acre.

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Why not try it on your crops?

Advice on the use of Nitrate of Soda and lists of dealers will be sent on request. In writing please add, to identify this advertisement, the number 1504.

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Seed Corn and Seed Oats My drying house is filled with Cfement's Improved White Cap yellow dent and Duncan's yellow dent seed corn. Fire dried on racks, ear tested, guaranteed germination from high yielding stock. Registered and certified Worthy Oats. Developed by the Michigan Agricultural College. Heavy yielders with a stiff Write for prices.
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A REMARKABLE APPLE

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For nearly a half century, Isbell's have been developing yield, vitality and hardiness in seeds. Ceaseless experimenting, careful selection, better growing, sorting and cleaning methods have done this. 200,000 customers have proved this profit-building quality—they plant isbell's seeds year after year and get bumper crops.

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This Valuable Book The 1925 Isbell's Seed FREE Annual tells how to select seeds how to prepare soil, gives cultural directions, and quotes direct-from-grower prices. The coupon brings it Free.

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Name Address

Always Give Name and Address When Sonding Inquiries as Satisfactory Service Connot be Given to Unsigned Letters

PARKING BOATS.

Is it unlawful to hitch a boat or a number of boats to a bridge or tree on a highway between two lakes? Can the highway commissioner give permission to park boats in such a place? G. C.

We have not been able to find any regulation of the parking of boats along highways. In the absence of such a provision no person would have a right to park his boak in any place where it would obstruct navigation .-Rood.

A LEGAL FENCE.

Is a fence built of barbed wire lawful? Would a fence built of woven wire, say thirty-six inches high, and one or more strands of barbed wire above, be legal for line or division fences?—T. S.

Any fence fifty-four inches high and sufficient to turn stock usually kept on farms, is a legal fence, whether made of barbed wire or other material .-Rood.

MORTGAGE SALE.

A. gives B. a mortgage on a forty-acre farm. Later A. sells to C. subject to the mortgage held by B. Now, if B. should foreclose the mortgage and sell at mortgage sale and does not get the amount of the mortgage from the sale, will C. have to make up the balance?—C. S. E.

If the purchaser from the mortgagor has made no promise to the mortgagor or mortgagee to pay the mortgage he is not liable to either for the deficiency.-Rood.

AN OLD SCHEME.

A company I never heard of before sent me four neckties (insured), inclosing a letter stating that after examination if I wanted to keep them to send \$1.50, or, if I did not want them, to return them. They inclosed postage for return. As I never sent for the ties, am I under any obligation to return them? Company also wants a person to sell for them. Several neighbors have also received packages the same way.—W. S.

This is a trick that has been played.

This is a trick that has been played wbolesale by certain dealers. The recipient of such a package is under no obligation either to pay for it or return it. He is obliged, however, to deliver it up to the owner upon demand and due proof of title, which in the more than the property is worth.-Rood.

THE CAUSE OF SHEEP RUBBING AND PULLING WOOL.

What is the cause of sheep rubbing and pulling out their wool? I have examined mine closely and find no lice or ticks. They are fat and apparently in good health. Are fed alfalfa hay and cornstalks. They are fine wool sheep.—F. R.

It is doubtful if anyone would care to assume the responsibility of stating the cause of this trouble without first making a very careful examination. It would certainly seem advisable to have a competent local veterinarian study this case at once.

Of course, much depends on the secrity of the disorder. and then a sheep rubbing itself occasionally the owner can himself watch developments. But if the disorder spreads and has a tendency to become general it should be attended to at

Without the opportunity of an investigation an outsider would be suspicious that something was the matter with the feed. Both of these feeds are suitable for sheep and ordinarily are all right. But sometimes feed gets ble or not. Some mould seems to have dates for each.

no ill effect but others are dangerous. There have been instances where similar conditions were produced in horses, by the food they consumed, that caused nearly all their hair to come off. Conditions might be produced by mouldy or otherwise unwholesome food, through sympathy of the nervous systems, that would produce an irritation in the skin, that could result in serious loss.

FARMER'S VEGETABLE GARDEN.

(Continued from page 305). fectly straight. Also there is no greater incentive to pride in one's garden than to look down from one end and see the straight, parallel rows.

When placing the rows of sweet corn on the map you are making, do not plan for a straight, single row, but rather, place two or more rows side by side, otherwise you will not get good pollination and the ears will not be well filled.

It is a good plan to place the rows of squashes, pumpkins and other rank growing vine crops next to the strip of clover, as this will result in the saving of room.

By making a plan early, it will be possible to secure a well balanced garden, with just the right amount of each kind of vegetable. A succession should be sown so that there will not only be an ample supply throughout the growing season, but also a goodly supply of squashes, pumpkins and root crops to be stored for winter use. Many of the summer vegetables may be canned so that they will retain much of their food value.

The next thing to be considered is the seed supply. This is one of the most important items to be considered for much of the success of your garden will depend upon the quality of the seed which is sown. The best of soil and the greatest attention to details of cultivation will count for little if the seed sown be not of the highest grade.

There are great differences in varieties, as to their adaptation, their quality, and their breeding. Many varieties take too long a time to reach maturity to be of value for sowing in Michigan. To sow these might result in total loss.

There are certain varieties which nature of things would cost very much differ largely from others in the matter of quality. One variety of snap beans may be tough, stringy, and woody in fiber, while another, equally productive, may be tender and stringless at all stages of growth. A smooth seeded hard pea is lacking in sugar, while a wrinkled seeded variety is sweet. One variety of radish may quickly become pithy, while another may stand for a week or more while still retaining its mild, crisp char-

There is the matter of breeding to be considered. There is just as much difference between well-bred seed and 'scrub" seed as there is between a pure-bred cow and a scrub. The better class of seedsmen lay great stress upon the purity of the seed which they With only now grow. It never pays to purchase seed from any one but a reliable seedsman. Good seed will probably cost a little more than poor seed, but they are worth many times over the difference in cost. Poor seed is dear at any price. The relation which cost of good seed bears to the value of the crop is so small that one can well afford to pay any extra cost.

And now get out your pencil, rule and paper, and get this plan under way. In a subsequent issue of The mouldy. There are so many different Michigan Farmer we will give a list of moulds and bacteria that one is not some of the more desirable varieties. sure whether this could cause the trou- together with the proper planting

Doing New Orleans

From an Agricultural Standpoint By Myron A. Cobb

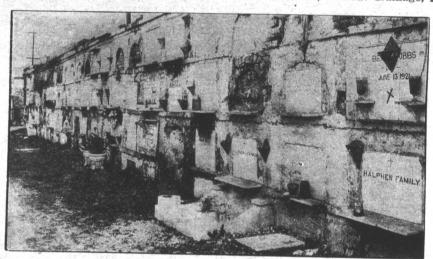
S TANDING on the New Orleans ing fruits and early vegetables for our wharf in January and seeing the people from the interpretation. loading of 200,000 bushels of wheat on a vessel bound for Germany gives one a partial understanding of why wheat has jumped from ninety cents to \$2.00 a bushel. During the fall and winter, it is said, wheat and rye has been shipped from this port to all the countries of Europe. Clearly the problem of agriculture is the handling of the surplus. Our yearly production of wheat is approximately 900,000,000 bushels and our consumption is 600,-000,000. It does not take trigonometry to calculate the mathematics of the problem, but it does take the farm bureau, United States Department of Agriculture, congress, etc., to solve the result of our production.

An examination of the wheat in the cargo for Germany, shows it to be of very poor quality, small berry, mixed, shrunken and containing weed seed. Most of the wheat shipped to Europe

people from the isles of the sea. The ships of the United Fruit Company, flying American flags, makes regularly the ports of the Gulf of Mexico, carrying flour, and manufactured articles, and bringing fruits to our shores. It takes shipload after shipload, day in and day out, to stifle the cry, "Yes, we have no bananas today."

That the American farmer must be a chemist, a botanist, a business man, an artisan, is well known. A few days on the wharves of a port having foreign shipping will convince one that the farmers must be interested in world-wide problems. He must be interested in who carries his products to other shores. His financial success or failure depends on this.

No trip to New Orleans is complete without a visit to the cemeteries. Here we find hundreds of acres of expensive above-ground tombs. The soil and subsoil of this area, without drainage, is



One of New Orleans' Above-ground Cemeteries.

is of a poor grade. "That is all they can afford and they will use it somehow," is the response of an elevator man on my inquiry as to the advisability of shipping poor quality grains.

There are quite a few large wheat elevators in New Orleans. These hold hundreds of thousands of bushels for foreign shipments. Some of the wheat from the Mississippi Valley is shipped by rail and barge to these elevators. It is interesting to see the unloading of these wheat barges. Elevator spouts are placed in the piles of wheat and the wheat is "sucked" up like a silo filler working backward. Bulk cotton is handled in a similar manner at

Other outgoing agricultural materials shipped from the New Orleans port during January are cotton, lumber, tobacco, rye, condensed milk and corn. The incoming materials (inlarge quantities) are coffee, syrup for refining to sugar, sisal, fruit and paper. The latter was coming from Norway's trees.

A landlubber from Michigan is especially interested in docks, shipping and ships. To see the flags of other naflags of the following countries were seen on ships in a short time: Germany, Holland, Japan, England and the United States. There is a touch ing our flag. Do our people lack the spirit of adventure? Certainly not, is the answer. Are we not accustomed to handling commerce to foreign shores? Perhaps. Do we need a bonus is found only in the New Orleans area. to encourage our people to engage in foreign trade? Some say yes. It is certain that to sell our surplus of corn, wheat and otbacco, etc., to best advantage we should have American ships to secure markets and carry our products to the four quarters of the globe.

filled with water, "There is not a cellar in all this area." The bodies of the dead could not be buried under ground. They are all laid away in sorts of tombs varying from a simple bricked-over coffin, to elaborate mausoleums costing hundred of thousands of dollars. The cemeteries are most curious and interesting, and are visited by all tourists.

Under moderate circumstances, people cannot afford elaborate tombs and are placed, upon death, in a "hole" in a tomb containing hundreds of bodies. The body is slipped into one of these nitches and bricked in. One can see many of these composite tombs, four notches high and fifty to one hundred tiers long.

A dilemma arises when friends wish to place flowers on the grave. Each nitche has a tiny ledge on the front and on this are placed vases, cans, bottles (milk bottles) in which flowers are placed. This lovely milk bottle stands in an odd place.

Naturally, the rich expend large amounts of money on the tombs, trying to outdo the others in elaborateness, uniqueness. The latter idea adds tions flying on foreign ships is attrac- variety to the visit as no two tombs tive. In Mobile and New Orleans the are alike. Some have shrines, others have elaborate decorations, figures, or stained windows.

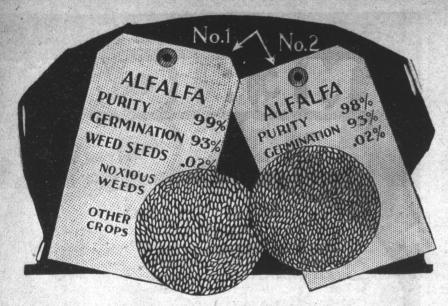
Many societies bury their dead in a single tomb. The Italians and Greeks of regret in not seeing more ships fly- have brought the art of Rome and Athens and applied it to the tombs. You see Ionic and Corinthian columns. Catholic, Jew and Gentile are buried beside each other. It is said that this

With better drainage some burials are made now underneath the ground. "You haven't got that grave deep enough," was my comment as I peered down into a shallow, newly-made grave. "It is as deep as the law requires, three and one-half feet," was At present American ships are bring- the reply. This is to the bottom of the

Electric Wheel Co.



Mention The Michigan Farmer When Writing Advertisers



Can You Tell the Difference?



The first lot gave a good stand



The second came patchy and poor

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SUMMER before last, John Wilson put a piece of land into Alfalfa. It was a fine big field, well drained and in first-class shape. He bought a bag of seed like No. 1, but before he finished seeding he had to go back to town for another peck to finish out with. As his dealer had no more of the same brand, he gave John another kind, which was just as high test and looked fully as good.

The next spring anybody could tell, by the looks of the Alfalfa, just where John left off with the first seed and started with the second. The first gave a good stand, while the second came up patchy and poor.

According to the tags, Brand No. 1 contained just as much pure, live Alfalfa seed as Brand No. 2. There might have been several explanations.

Free Book You can learn how to avoid getting seed like John Wilson's No. 2 by reading "7 Lessons in Judging Seed" containing important facts about seeds. Worth dollars and cents to every farmer. Sent free on request.

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Cal. 30, five shot. Barrel 25 1-4in., total length 46 in., weight 9 1-2 lbs. Barrel and stock new. Sight mounted over receiver. This type used by A. E. F. Frice, \$12.50. Ball cartridges \$3.50 per 100. Gunners cleaning kit 85 cents. 15 Acres Army Goods. New Catalog. \$12.5. 60th Anniversary issue, 372 pages, fully illustrated, contains pictures and historical information of all American military guns and pistols (including Colts) since 1775, with all World War rifles. Mailed 50c. Established 1865.
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Known and used everywhere for 41 years. Apply
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leave scars or dispolor hair. Buy it today. \$1.50
at drug stores or direct on receipt of price.
The Lawrence-Williams Co., Cleveland, Ohio. GOOD FOR HUMANS, TOO

Trees From Kalamazoo Direct to You---at Reduced Prices

Also shrubs, berries and roses. Beautiful 1925 catalog sent free upon request. Full of big bargains and tells about stock to be given away.

Everybody should plant this spring. It is a patriotic as well as a profitable duty.

Therefore you cannot afford to be without this catalog. It will cut your tree bill in two. Ask for it today—NOW—right away.

CELERY CITY NURSERIES,

Growers of Good Trees for Many Years

Box 208, Kalamazoo, Mich

grave, too. It did not seem due re- Doe, Berlin, Germany, or Wayne Counspect to the dead not to make the ty, Michigan. The second valuable grave deeper or to be poked in a "hole" in the wall. I suppose it depends on your bringing up.

The cemeteries are a fashionable place. On Sundays and holidays these places are crowded with people paying tribute to the dead, visiting, gossiping, and making love. Why spend the savings of a lifetime in a cemetery without some practical use to someone?

Two interesting suggestions come from a study of the inscriptions on the tombs. First, in most cases, the birthplace of the deceased is given as, John

suggestion, the maiden name of a woman, if married, is given. These practices make records more complete and are well worth imitating. Another idea not so good, is simply placing a number on the bricked niche of composite tombs. The writer does not want to go by number thirteen or twenty-three when millenium comes.

The tourist will enjoy an hour or two, a day or two in these cities of the dead of New Orleans. "May their souls rest in peace" is the oft repeated inscription.

Ionia's Big Round-up

(Continued from page 310).

schools in this state. Not only ought this group be reached, but the services of the college should likewise be made easily available to all ages. The man of eighty should have the chance to improve his mind through extension work, if he so desired. If this effort can be properly carried out, it should prove a real factor in the rebuilding of communities.

agricultural leader was received by the farm folks of Ionia indicates that farmers seem happily disposed to support his program of work.

"The Most Important Spot on Earth." The above is the theme so ably treated by Dean Alfred Vivian, of Ohio State University. He referred to the farm home-discussing the great contribution to our national advancement made by the farm homes of America, and the possibilities of these homes becoming a liability unless supported by a broad social and economic program. "The important thing," said the Dean, "is that the right kind of young men and women should decide to remain on the farm and become the farmers of tomorrow.

"I have, within the last three or four years interviewed some five hundred farm boys and girls who were in the first two years of high school and have asked them what they would need to have promised to them so that they could look forward to life on the farm with pleasant anticipation. Their answer, when tabulated, nearly all came under five heads:

1. We should be able to earn an income on the farm, equivalent to that we could make in the city.

2. We should be able to have the comforts and conveniences, usually found in the city home, in our country homes.

3. Our schools should be as good as our city schools.

4. We should have an attractive social life. 5. We should have a satisfactory re-

ligious life. "These five requests seem reason-

able enough and they are merely the right of all people living on the farm. One thing is certain, however, and that is, whether or not they are our right, we will get them only when we work for them, and to obtain them will require cooperative effort.

"We are likely in America to look too much to government, and fail to remember that the things that are really worth while come only through our own efforts.

"Our children will face a much more complex agriculture than we knew anything about in our early days. This new agriculture will call for a high degree of education; the new farmer must learn to take a broad view of economic relations; must be able to develop within himself analytical powers-there will be no place in the new agriculture for the one-track mind.

"The new agriculture is going to require the cooperation of many organizations and we must have the same the various organizations as we expect between the members of any one or- week in private homes.

seven and twenty years are not in ganization. The real reason for cooperation lies in the need of larger units. We have been trying in the past, in farming, to conduct a wholesale business on a volume of trade that would be small for a retail business, and we must learn to unite our efforts in such a way that the overhead and marketing will bear a better relation to the total volume of business.

"Among other things we must learn, The fine way in which Michigan's is that farming is a long time job and not a matter of any one individual year. Good things evolve slowly and if we have patience there is no reason why we should not put agriculture on a sound business footing.

> "Important as is the economic side of farming, however, we should not lose sight of the fact that farming is a mode of life, and that the really important thing is the family that lives in the farm home. The real reason why we desire an increased income for the farm is because we wish a broader, richer, home life for the farm family. Boys and girls, men and women, are after all the best farm crop and it is quite as important to know how to spend money as it is to know how to

Exchange Club Banquets Farmers.

A fine exemplification of the cooperative spirit of the business men of Icnia was shown when, in the evening, they gave the farmers a real banquet. Over three hundred plates were spread. Here, too, a significant program was carried out. Mr. Sapiro told the audience how the business men of California helped themselves to get on their own feet by actively promoting the organization of the raisin growers. Dean Vivian followed by emphasizing the need of the business men's help in building serviceable farmers' institutions, and also the contribution of the farm home to the business interests of the community and nation, as well as to the development of our great democracy.

The farmers present, in appreciation of the generosity of the Exchange Club, voted to give to the business men of Ionia a banquet and program, some time in the near future. This expresses the close harmony existing between the men of the city of Ionia and the men of the surrounding farms. Finally, we must give credit for the promotion of this whole enterprise to Albert Cook, Jr., son of the master of Michigan's State Grange, and his coworkers.

ANOTHER GAS ENGINE COURSE.

S O successful is the progress of the first course on the operation and repairing of trucks and tractors now being given at the M. A. C., that a second course, continuing from March 9 to April 7, is planned. This four weeks' training is certain to make the use of gas engine equipment on many farms far more efficient and useful. Each student provides himself with a onepiece cover-all suit, an adjustable wrench, screw driver and a pair of combination pliers. Their other exwhole-hearted cooperation between pense is for board and room, which runs from seven to eight dollars per

Their Influence on the Marketing of Milk By J. T. Horner

ducer receives for his milk is the retail price which prevails in the city market. There are several factors which have an influence on the retail price. The consumer's belief in the distributor.

tor pays the producer must come from the sale of milk. The larger the consumer price the more money there is which could ultimately go to the farmer. However, a high retail price does not necessarily make a high price for the dairyman. Quite naturally the distributor is going to keep as much of his total income as possible. The barquite materially just how much of the total income the milk dealer can be induced to give up. Anything which tends to reduce the income of the distributor reacts against the farmer's

In considering the milk market as a whole, due regard must be given to the interests of the consumer. The price should never be placed above an equitable level merely for the sake of giving a higher return to the milk producer. The retail price should not be so high that milk consumption be reduced below health requirements. On the other hand, it must be sufficiently high to insure a permanent flow of milk sufficient to meet these requirements. If the price should go so low that dairying becomes unprofitable, many farmers would go out of business. This would decrease the supply and result in an abnormally high price because of the shortage.

The consumer, then, is interested in having a price which will assure profitable dairying and a permanent and a pure milk supply. The temporary financial saving which comes to the consumer through a low price may be followed by a serious injury.

In our present day economic system free and unfettered competition is considered not only beneficial but also necessary. There is fear of monopoly. Trade price agreements are frowned upon and have been made illegal. If we choose free and unlimited competition we should not forget that we must also bear its burdens.

In the retail milk market the pricecutting distributor is a factor which keeps prices down. His service to society is to counteract, to a certain extent, the forces which make for higher prices. The injuries which are the result of his presence must be offset against this advantage.

The milk market is affected more by price-cutting than most other markets The reduction of five cents a pound on coffee or meat will attract some trade; but many consumers will

S has been stated in a previous not go to the trouble of hunting up article, the price which the pro- these bargains and going many blocks to take advantage of them. A wide dependent, to a certain extent, upon range in retail prices of most food products is possible because the market area is rather limited. Then, too, a low price on one article might be offset by a higher one on some others. fairness of the price has already been In order to get the lowest prices on all dealt with. In this article considera- products the buyer would have to tion will be given to the price-cutting spend much time in shopping around and buying at many places. The sav-The money with which the distribu- ing would not repay the average consumer for the effort expended. Store keepers know these facts and, therefore, offer low prices on those products which will probably attract the largest number of buyers to their store.

The milk market is different. In the first place it is handled by a specialist. A reduced price cannot be offset by a gaining power of the producer affects higher price on some other product. A decrease from ten cents to nine cents a quart means a reduction of ten per cent on the milk dealer's total stock of goods. This decrease is not for a day or two or a short "special sale" period, but it is permanent. No other business could take such a cut in price unless its margin was extremely wide. Such a decrease can be met only by lowering the price to the

> The grocery market is limited in area because of its fixed location. A different level of grocery prices might prevail in different parts of a city. This is not true in the milk market because the milk supply is on wheels and can go any place in the city.

There is another difference. consumer selects his grocer, or meat dealer, but is solicited for his milk trade. The main selling point of the milk solicitor is a lower price. The housewife, thus approached and offered milk for a cent less, sees no reason why she should not accept it. She sees the lower price only. She is not able to compare quality. Sanitary conditions in the bottling plant-or on the farm are matters to which she gives little thought. This buyer of milk does not concern herself about how much the farmer gets for his share in providing her with milk, or whether this new milk distributor can continue in the market and pay his just debts. She sees only a quart of milk at a lower

The milk dealers who has been supplying this customer does not want to lose his customers. To retain them he is forced to meet the lowest price.

Thus, the cut-price dealer forces a lower retail price. It matters not whether this man can make money at the low price or not. If he cannot he will go bankrupt and the farmer will not receive pay for the product which he has furnished in good faith. When this man is gone another will come to take his place, and the process goes on

Every cut-price milk dealer does not



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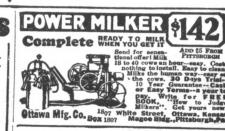
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fail. Some use this method to build up a trade and then raises the price. When a man starts business on a small scale his expenses are not so great. He is willing to take a lower wage for himself while he is building up the business. Very little hired help will be required. His wife and children can fill and wash bottles, deliver milk, solicit trade and do the other necessary work. This man can obviously operate at a lower cost than the one who has to hire all his labor. As soon as this cut-price dealer expands his business and makes sufficient money, he hires his labor and relieves his wife' and children from their labor. Then, he desires to raise the price so he can meet expenses.

Whether it is desirable to have all milk distributed by the small family enterprise which makes for low standards of living and secure a slightly lower price is not to be considered here. The facts are that the bulk of it is handled by large concerns which aim to pay their workmen at least the standard wage. Any factor which brings about a price lower than sufficient to pay this and return the farmer an equitable price results in the farmer bearing the burden.

In the past we have not known about the milk market. We have not been looking at it in its entirety but rather examining it in parts. There has not been sufficient consideration to the dependence of one factor upon another. The farmer has rather welcomed the presence of the cut-price distributor without realizing the effect on his own purse.

We should not countenance market practices which unduly raise the price of milk to the consumer. On the other hand, we should realize that in the interest of the farmer every legitimate practice should be followed to maintain a stable retail price. It is surely within the limits of law and common sense for the farmers to sell their product only to those dealers who follow practices which yield the highest return to the producer, provided these practices do not injure the consumer. The consumer, also, needs to understand that the cut-price distributor is not of permanent value to him.

Farmers producing milk for the city market should make it their business to know about the buyer of their product. Is this man taking advantage of your unfamiliarity of the market to make you a party to practices which will ultimately result in a reduction of price you are to receive?

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HE Gogebic Range Poultry Association is sponsoring a plan to establish the boys and girls of that county in the poultry business with gifts of settings of eggs of standard pure breeds of poultry. All boys and girls who accept this proposal will be gathered into a club to be designated "The Juvenile Poultry Breeders' Association." It is hoped thus to encourage the raising of better breeds of poultry on the Gogebic Iron Range.

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The donor reserves the right to select from the poultry thus reared before the winter show is staged, one pullet or cockerel and the donor is entitled to make suggestions regarding the proper course in rearing, feeding and housing the chicks. The recipient agrees to adopt these suggestions as far as is practicable. A committee of the Gogebic Range Association is created to put the plan in motion and supervise its execution.



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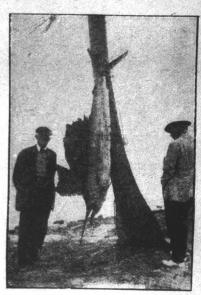
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William Titchenor, known as "The Wolf King" in fur trade, examines \$5,000,000 worth of peltry to be auctioned in New York to buyers from all over the world.



This monstrous sail fish was caught at Miami, Florida. It weighs 95 pounds.



Mlle. Oulio, on the site where she made the wonderful discoveries concerning the town of Mallia, Crete, which has long been buried beneath the debris of newer eras of civilization.



A living statuary group on the rim of Zion Canyon, 3.000 feet above the floor of Zion National Park, Utah. This scenic preserve now completely equipped as a national park, will be opened May 15.



This portable electric light plant lighted Sand Cave, and kept Frank Collins warm while rescue was in progress.



William M. Jardine, of Kansas, is reported as our next Secretary of Agriculture.



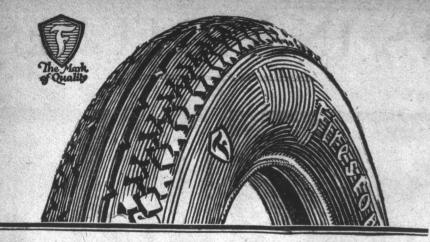
Eugene Clootto, world's champion, broke his own record when he ran a mile in six minutes and four seconds at Lewiston, Maine.



A blind girl (second from the right) is a member of the 'varsity four of St. Hilda's College, now in active training on the river at Oxford, England.



Four enginemen, and three soldiers, were killed when a Missouri-Pacific passenger train crashed with a freight train near Kansas City. The soldiers were riding the "blind baggage."



Gum Dipped cords

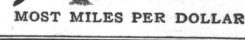
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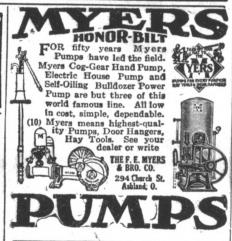


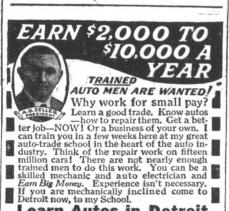
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SO BIG-By Edna Ferber

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and that comes before huckleber- done this to the boy. ries. There's the whole patch to clean up this afternoon by four."

Selina looked up, glanced at Pervus's face, at the boy's, said nothing. The look said, "He's a child. Let him go. Pervus.'

Dirk flushed with disappointment. They were at breakfast. It was barely daybreak. He looked down at his plate, his lips quivered, his long lashes lay heavy on his cheeks. Pervus got up, wiped his mouth with the back of his hand. There was a hard day ahead of him. "Time I was your age, Sobig, I would think it was an easy day when all I had to do was pick a tomato patch clean."

Dirk looked up then, quickly. "If I get it all picked can I go?"

"It's a day's job." "But if I do pick the patch—if I get through early enough—can I go?"

In his mind's eye Pervus saw the tomato patch, more scarlet than green, so thick hung the fruit upon the bushes. He smiled. "Yes. You pick them tomatoes and you can go. But no throwing into the baskets and getting 'em all softed up."

Secretly Selina resolved to help him, but she knew that this could not be until afternoon. The berry patches were fully three miles from the De-Jong farm. Dirk would have to finish by three o'clock, at the latest, to get there. Selina had her morning full with the housework.

He was in the patch before six; fell to work, feverishly. He picked, heaped the fruit into hillocks. The scarlet patches glowed, with an economy of gesture calculated to the fraction of an inch. He picked, stooped, heaped the mounds in the sultry heat of the August morning. The sweat stood out on his forehead, darkened his blond hair, slid down his cheeks that were pink, then red, then tinged with a purplish tone beneath the summer tan. When dinner time came he gulped a dozen alarming mouthfuls and was out again in the broiling noonday glare. Selina left her dinner dishes unwashed on the table to help htm, but Pervus intervened. "The boy's got to do it alone," he insisted.

"He'll never do it, Pervus. He's only eight."

"Time I was eight—"

He actually had cleared the patch by three. He went to the well and took a huge draught of water; drank two great dipperfuls, lipping it down thirstily, like a colt. It was a cool and delicious beyond belief. Then he sloshed a third and a fourth dipperful over his hot head and neck, took an empty lard pail for berries and was off down the dusty road and across the fields, running fleetly in spite of the quivering heat waves that seemed to dance between fiery heaven and parched earth. Selina stood in the kitchen doorway a moment, watching him. He looked very small and determined.

He found Geertje and Jozina, surbramble torn, lolling languidly in Kuy. you were laid up for a week per's woods. He began to pick the Learn Autos in Detroit plump blue balls but he ate them listlessly, though thriftily, because that was what he had come for and his Jozina prepared to leave not an hour after he had come he was ready to go. yet curiously loath to move. His lard pail was half filled. He trotted home laboriously through the late afternoon, feeling giddy and sick, with horrid pains in his head. That night he tossed in delirium, begged not to be made lie down, and perilously near to death.

ES, well tomatoes are ripe, too, veins. Hate for her husband who had

"You did it! You did it! He's a baby and you made him work like a man. If anything happens to him! If anything happens to him!-

"Well, I didn't think the kid would go for to do it. I didn't ask him to pick and then go berrying. He said could he and I said yes. If I had said no it would have been wrong, too, maybe."

"You're all alike. Look at Roelf Pool! They tried to make a farmer of him, too. And ruined him."

"What's the matter with farming? What's the matter with a farmer? You said farm work was grand work, once."

"Oh, I did. It is. It could be. It-Oh, what's the use of talking like that now! Look at him! Don't, Sobig! Don't, baby. How hot his head is. Listen Is that Jan with the doctor? No. No, it isn't. Mustard plasters. Are you sure that's the right thing?"

It was before the day of the omnipresent farmhouse telephone and the farmhouse Ford. Jan's trip to High Prairie village for the doctor and back to the farm meant a delay of hours. But within two days the boy was again about, rather pale, but otherwise seeming none the worse for his experience.

That was Pervus. Thrifty, like his kind, but unlike them in shrewdness. Penny wise, pound foolish; a characteristic that brought him his death. September, usually a succession of golden days and hazy opalescent evenings on the Illinois prairie land, was disastrously cold and rainy that year. Pervus's great frame was racked by rheumatism. He was forty now, and over, still of magnificent physique, so that to see him suffering gave Selina the pangs of pity that one has at sight of the very strong or the very weak in pain. He drove the weary miles to market three times a week, for September was the last big month of the truck farmer's season. After that only the hardier plants survived the frosts -the cabbages, beets, turnips, carrots, pumpkin, squash. The roads in places were morasses of mud into which the wheels were likely to sink to the hubs. Once stuck you had often to wait for a friendly passing team to haul you out. Pervus would start early, detour for miles in order to avoid the worst places. Jan was too stupid, too old, too inexpert to be trusted with the Haymarket trading. Selina would watch Pervus drive off down the road in the creaking old market wagon, the green stuff protected by canvas, but Pervus wet before ever he climbed into the seat. There never seemed to be enough waterproof canvas for both.

"Pervus, take it off those sacks and put it over your shoulders.'

"That's them white globe onions. The last of 'em. I can get a fancy price for them but not if they're all wetted down."

"Don't sleep on the wagon tonight, Pervus. Sleep in. Be sure. It saves feited with fruit, berry stained and in the end. You know the last time

"It'll clear. Breaking now over there in the west."

The clouds did break late in the afternoon; the false sun came out hot father was Dutch. When Geertje and and bright. Pervus slept out in the Haymarket, for the night was close and humid. At midnight the lake wind sprang up, cold and treacherous, and with it came the rain again. Pervus was drenched by morning, chilled, thoroughly miserable. A hot cup of coffee at four and another at ten when the rush of trading was over stimulated him but little. When he reached home it was mid-afternoon. Beneath Selina's heart was an engine pump- the bronze wrought by the wind and ing terror, hate, agony through her sun of many years the gray-white of

sickness shone dully, like silver under enamel. Selina put him to bed against his half-hearted protests. Banked him with hot water jars, a hot iron wrapped in flannel at his feet. But later came fever instead of the expected relief of perspiration. Ill though he was he looked more ruddy and hale than most men in health; but suddenly Selina, startled, saw black lines like gashes etched under his eyes, about his mouth, in his cheeks.

In a day when pneumonia was known as lung fever and in a locality that advised closed windows and hot air as a remedy, Pervus's battle was lost before the doctor's hooded buggy was seen standing in the yard for long hours through the night. Toward morning the doctor had Jan Steen stable the horse. It was a sultry night, with flashes of heat lightning in the west.

"I should think if you opened the windows," Selina said to the old High Prairie doctor over and over, emboldened by terror, "it would help him to breathe. He—he's breathing so—he's breathing so—" She could not bring herself to say so terribly. The sound of the words wrung her as did the sound of his terrible breathing.

P ERHAPS the most poignant and touching feature of the days that followed was not the sight of this stricken giant, lying majestic and alcof in his unwonted black; nor of the boy Dirk, mystified but elated, too, with the unaccustomed stir and excitement; nor of the shabby little farm that seemed to shrink and dwindle into further insignificance beneath the sudden publicity turned upon it. No; it was the sight of Selina, widowed, but having no time for decent tears. The farm was there; it must be tended. Illness, death, sorrow—the garden must be tended, the vegetables pulled. hauled to market, sold. Upon the garden depended the boy's future, and hers.

For the first few days following the funeral one or another of the neighboring farmers drove the DeJong team to market, aided the blundering Jan in the fields. But each had his hands full with his own farm work. On the fifth day Jan Steen had to take the garden truck to Chicago, though not without many misgivings on Selina's part, all of which were realized when he returned late next day with half the load still on his wagon and a sum of money representing exactly zero in profits. The wilted left-over vegetables were dumped behind the barn to be used later as fertilizer.

"I didn't do so good this time," Jan explained, "on account I didn't get no right place in the market."

"You started early enough."

"Well, they kind of crowded me out, like. They see I was a new hand and time I got the animals stabled and come back they had the wagon crowded out. like.

Selina was standing in the kitchen doorway, Jan in the yard with the team. She turned her face toward the fields. An observant person (Jan Steen was not one of these) would have noted the singularly determined and clearcut jaw-line of this drably calicoed farm woman.

"I'll go myself Monday."

Jain stared. "Go? Go where, Monday?"

At this seeming pleasantry Jan Steen smiled uncertainly, shrugged his shoulders, and was off to the barn. She was always saying things that didn't make sense. His horror and unbelief were shared by the rest of High Prairie when on Monday Selina Itierally took the reins in her own slim work-scarred hands.

"To market!" argued Jan as excitedly as his phlegmatic nature would permit. "A woman she don't go to market. A woman--"

"This woman does." Selina had risen at three in the morning. Not only that, she had got Jan up, grumbling. (Continued on page 325).

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Pittsburgh Steel Co. 708 Union Trust Bldg. Pittsburgh, Pa.

On the Cross

Our Weekly Sermon-By N. A. McCune

SUNDAY SCHOOL LESSON FOR MARCH 8.

SUBJECT:—The Savior on the Cross. Luke 23.33 to 46. GOLDEN TEXT:—He that spared not His own Son, but delivered Him up for all, how shall He not also with him freely give us all things? Rom. 8.32

HERE are two passages that go to the heart of the teaching about the Cross of Christ. One is from Phillipians: "—Christ Jesus; who, being in the form of God, thought it not robbery to be equal with God: but made Himself of no reputation, and took upon Him the form of a servant, and was made in the likeness of men: and being found in fashion as a man, he humbled Himself, and became obedient unto death, even the death of the cross." The other is from Hebrews: "We see Jesus, who was made a little lower than the angels for the suffering of death, crowned with glory and honor; that He by the grace of

God should taste death for every man." Ponder the phrases: "humbled Himself"-"became obedient unto death"-"the death of the Cross" -- "taste death;" think of that! taste it "for

every man." Of course, no one will ever be able to explain the Cross. It is beyond human terms. Volumes, libraries, have been written about it.

secret of it cannot be put into language, I do not believe. The nearest anyone can come to understanding it is to live the life of the Cross; to follow Christ so closely that the Savior's life becomes his life. Some men, too, have passed through the black waters of persecution or have suffered the loss of goods for the sake of some great cause come to know its deep meanings. Some great cause, God's new Messiah,
Offering each the bloom or blight,
Parts the goats upon the left hand,
And the sheep upon the right,
And the choice goes by forever

Twixt that darkness and that light.

One of the best chapters on this subject is, "The Choice of the Cross," in the little book, "The Jesus of History," by Dr. T. R. Glover, of England. I intend to take up some of the points he makes, and I want to begin with a quotation. What did the choice of the cross mean? "It meant, of course, physical pain. He, with open eyes, chose physical pain, heightened to torture, not escaping any of the suffering which anticipation gives—that physical horror of death, that instinctive fear of annihilation, which nature suggests of itself. He took the course of action that would most severely test His disciples; one at least revolted, and we have to ask what it meant to Jesus to live with Judas, to watch his face, to recognize his influence in the little group-yes, and to try to win him again and to be repelled. 'He learnt by the things He suffered' that Judas would betray Him; but the hour and place and method were not so evident, More will be written. But the inmost and when they were at last revealed-

The Farm Loan Plan

How It Serves the Farmer

Farm Loan Act which became effective in 1917. Statistics show that \$1,535,198,000 had been loaned to the American farmers through land banks organized under the Act to December 31, 1924. This represents about one-eighth of the farm mortgages existing in the United States.

insuring to the borrowing farmer pro- the agricultural industry.

tection against frequent renewal charges and insuring him a low rate of interest.

It seems that only a small percentage of the borrowing farmers know where and how to obtain a loan from a Joint Stock Land Bank. The county agents and local banks in some cases are not familiar with the operation of these banks. However, the loan is hecoming more popular and questions are being asked as to who may avail themselves of a loan made on a

plan extending over a period of from secured.

These loans are made upon direct application to the land bank or through the local banks acting as their agents.

The land banks are not in position to buy farms or furnish more than approximately fifty per cent of the capital invested in a farm. The Act provided that a loan of fifty per cent of the value of the land, and twenty per cent of the insurable buildings could be made: the land and buildings to be appraised separately. A loan cannot be made except where the security is ample, because the bonds issued O. P. G.

ONGRESS passes the Federal against these loans as security, are sold to investors who have the right to expect these loans to be carefully made. The investor, through the purchase of the bonds, loans his money on farms in the rural communities, partly because he feels it his duty to assist the agricultural industry, for he considers this industry the basic one, The Act provided for a long-time and his properity depends indirectly, loan with small semi-annual payments, if not directly, upon the prosperity of



A Joint Stock Land Bank operating thirty to forty years, and how they are in a state is a means of bringing capital from the large cities to the rural communities. During the past year a Joint Stock Land Bank located in this state has loaned \$2,000,000 to the borrowing farmers in the territory in which it operates. Very few of the bonds representing this amount of capital were sold within the state.

This plan of loan is becoming popular with the local banks in the rural sections because they have been requested to furnish capital for shorttime loans and see the advantage of having their own capital in a more liquid loan than a farm mortgage.-

Judas? Do we feel what he felt in the so-called trials—or was he dull and numbed by the catastrophe? How did He bear the beating of triumphant hatred upon a forsaked spirit? How did the horrible cry, 'Crucify Him! crucify Him! break on his ears-on his mind? When the 'Lord turned and looked upon Peter,' what did it mean? How did He know that Peter was there, and what led Him to turn at that moment? Was there in the Passion no element of uneasiness again about the eleven on whom he had concentrated his hopes and his influence-the eleven of whom it is recorded, that 'they all forsook Him and fled' (Mark XIV.50)? No hint of dread that his work might indeed be undone? What pain must that have involved? What is the value of the Agony in the Garden, of the cry, 'Eloi, Eloi, lama sabachthani, (Mark XV.34)? When we have answered, each for himself, these questions, and others like them that will suggest themselvesanswered them by the most earnest efforts of which our natures are capable -and remembered at the end how our natures fall short of His, and told ourselves that our answers are insufficient then let us recall, once more, that He chose all this."

THE Cross, we say, makes forgiveness possible. Of course, just how, we do not know. Forgiveness is not the easy, unthinking thing some folks seem to imagine it is. Christ may forgive, but how about the past, on our side? Can we get back the moral quality we have lost? He says that forgiveness is like the relations between father and son. When forgiveness takes place, the Father goes to work with the son to try to mend the past. Of course, if a very bad crop has been sown, it must be reaped. But the Father comes in to help. And-with such a Helper, things begin to go better. Even when the results of sin have gotten out into other lives, the Father will still help. Think of the prodigal son. The old father did all he could for him, did it joyously, quickly, and asked others to join in the merrymaking.

This all becomes possible because of Christ's love of men. He does not lose the individual in the mass. He never does that, something that most of us do every day. Still further, he has unbounded faith in God. To Peter He said, "You think like a man and not like God" (Mark VIII.33). He saw in God what we do not. And this is exactly one of the great meanings of the Cross. It shows us God, as nothing else does. If one wants to learn what the Christian God is like, let him stand for a while in Gethsemane. Then let him go outside the city to Golgotha. Let him head those words on the Cross. Let him remember that it was His love of humanity that led Christ to this dreadful experience. Calvary is the steep, winding way that leads to God. The medieval practice of religious folk was to spend hours meditating on the Passion of Christ. For alone?" this purpose images of Christ were placed in locations where the eye our harrying, matter-of-fact age. But place for a decent woman. As for the ing of the Passion is as incumbent on —all manner of wickedness—daughters us as ever, if we really want to get at of Jezebel on the street, going among the meaning of it, and draw its lessons the wagons. for own guidance.

THERE were seven different sayings farm. as our Lord hung on the cross. "Ye These are usually called, "The Seven Words on the Cross." These are, "Forgive them, for they know not what they do"; "Today shalt thou be with me in Paradise"; "Behold my Mother!"; "My God, my God, why hast Thou forsaken Me?" Of this the late Sir W. Robertson Nicoll said, "We feel once it's fallen." with trembling hearts that we are confronted here with the central mystery in the life of God and in the story of hold on him that he could not see bring forth.

what did it mean to be kissed by god. The time had come when He was to know in all its horror what it was to be the representative of our fallen humanity. Had He not thus trodden the wine-press alone, there would have been for us no salvation." The fifth word, "I thirst," came when He had hung in agony for six hours. John alone records the sixth, "It is finished." The last, "Father, into Thy hands I commend my spirit," is the final utterance which shows His complete confidence in His Father. The cloud has passed away. He knows to Whom He is going.

SO BIG.

(Continued from page 323). Dirk had joined them in the fields at Together the three of them had pulled and bunched a wagon load. "Size them," Selina ordered, as they started to bunch radishes, beets, turnips, carrots. "And don't leave them loose like that. Tie them tight at the heads, like this. Twice around with the string, and through. Make bouquets of them, not bunches. And we're going to scrub them."

High Prairie washed its vegetables desultorily; sometimes not at all. Higgledy piggledy, large and small, they were bunched and sold as vegetables, not objects d'art. Generally there was a tan crust of good earth coating them which the housewife could scrub off at her own kitchen sink. What else had housewives to do!

Selina, scrubbing the carrots vigorously under the pump, thought they emerged from their unaccustomed bath looking like clustered spears of pure gold. She knew better, though, than to say this in Jan's hearing. Jan, by now, was sullen with bewilderment. He refused to believe that she actually intended to carry out her plan. A woman-a High Prairie farmer's wife -driving to market like a man! Alone at night in the market place-or at best in one of the cheap rooming houses! By Sunday somehow, mysteriously, the news had filtered through the district. High Prairie attended the Dutch Reformed church with a question hot on its tongue and Selina did not attend the morning services. fine state of things, and she a widow of a week! High Prairie called at the DeJong farm on Sunday afternoon and was told that the widow was over in the west sixteen, poking about with the boy Dirk at her heels.

The Reverend Dekker appeared late Sunday afternoon on his way to evening service. A dour dominie, the Reverend Dekker, and one whose talents were anchronistic. He would have been invaluable in the days when New York was New Amsterdam. But the second and third generations of High Prairie Dutch were beginning to chafe under his old-world regime. A hard blue eye, had the Reverend Dekker, and a fanatic one.

"What is this talk I hear, Mrs. De-Jong, that you are going to the Haymarket with the garden stuff, a woman

"Dirk goes with me."

"You don't know what you are doing, would easily see them. This suits not Mrs. DeJong. The Haymarket is no the necessity of thinking on the mean- boy! There is card-playing, drinking

"Really!" said Selina. It sounded thrilling, after twelve years on the

"You must not go."

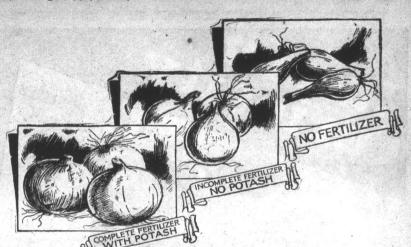
"The vegetables are rotting in the ground. And Dirk and I must live."

"Remember the two sparrows. 'One of them shall not fall on the ground without'-Matthew X-29."

"I don't see," replied Selina, simply, "what good that does the sparrow,

(Continued next week).

Boast not thyself of tomorrow; for the universe. Our iniquities took such thou knowest not what a day may



lore profit from muck soil

KNOWLEDGE is power! The more familiar you are with the needs of your soil the better able you are to raise profitable yields from it. Muck soil was formerly regarded as waste, but now we know that good drainage and the right kind of fertilizer result in paying yields.

Muck soils are rich in organic matter, nitrogen and sometimes phosphoric acid-but very poor in potash. Thus, the use of potash, either alone or in combination with other plant foods, is necessary for good crops on muck soils.

Mr. L. E. Davis, of Van Buren County, Michigan, proved the value of potash in an experiment with onions on three plots. One plot was not fertilized: another was fertilized with a mixture without potash; while a third plot was fertilized with a complete mixture containing 10% potash. The plot fertilized with 1,200 lbs. per acre of potash produced 72 bushels more than the plot fertilized with the mixture without potash. Figured in dollars and cents, the addition of \$7.20 worth of potash, brought an extra income of \$72.00 per acre—a net gain of \$64.80. POTASH

The Wisconsin Experiment Station recommends 400 to 600 lbs. per acre of a 0-12-12 or 0-8-24 fertilizer for onions in muck soil. And the Michigan Experiment Station recommends 800 to 1,000 lbs. of a 0-12-12 or 2-8-16 mixture. Use Potash on your muck crops this year.

FREE! You will receive a free copy of "Muck Lands" by sending your name and address to us now.

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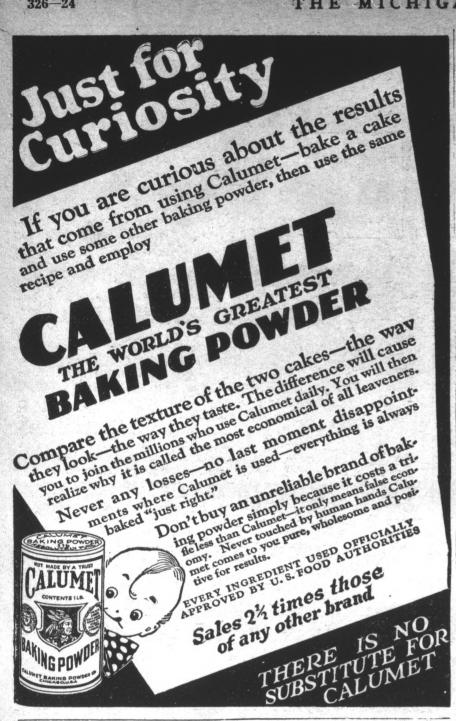
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Grown-ups go to School

Experience of Others Proves Extension Work to be Interesting

Mrs. Louise Campbell State Home Demonstration Leader

H OME Economics Extension Sergroups in their home communities, vice is a service which brings thus increasing the spread of informathe work of the colleges of tion from ten to twenty-fold. Over

growth need not cease with our physi- the local leaders themselves. There cal: that, as years pass, life becomes more and more interesting and our knowledge increases? A woman of ninety years recently said that if older people wish to retain their mental faculties, and if the world wishes to use the valuable contributions that can be given by the thought and experience of older people, there should be a compulsory school law for them.

It behooves us, then, to be careful and avoid the time when we are satisfied just to sit and rock and rock. It's a sure sign that we are in a rut mentally, and, as you know, it takes considerable will power to get out of that rut, and well onto the road of learning again. Because of a desire to meet this educational need, the Smith-Lever Act has been passed. This law au-

America to the homemakers in their 7,000 homes have been reached in the past three months with information Isn't it a blessing that our mental regarding homemaking activities by were more than 180,000 farm men and women in the United States in 1923 who voluntarily joined the extension forces to improve agriculture and home practices in rural America. We find that last year was a banner year for extension work among Michigan women. There has never been such interest before or such fine cooperation.

The teaching of the subject matter is an advantage in two ways-first, the satisfaction gained in rendering a real service, and, secondly, to know that you have the subject matter so well in mind that you can pass it on correctly to others. It is too large a work to be measured in words. It is not so much what we get or acquire, but what we give that makes us grow.

Local Leaders Discover Themselves.



These Party Favors Were Made by Women Interested in Extension Work After Only a Few Hours Instruction.

thorizes college extension service for adults in the forty-eight states of the women on their farms and in their homes may continue their education while carrying on their life work. County agents, home demonstration agents and college specialists are exerting every effort to spread the gospel of better homes and farm improvement in rural communities.

Liberates Homemaker's Time.

The adoption of these better practices as a result of this information not only brings about more efficiency in the operation of home duties, but also liberates time of the homemaker for developing the soul of the home, and becoming a better companion for her family and a better citizen in her neighborhood.

Home life in the community will farm women can have more of the things that contribute to physical, and spiritual well being. Home Economics Extension Work is giving consideration to the homes. It is bringing farm women together for study, social purposes and recreation.

A well defined program of work in household management, clothing and southern peninsulas of Michigan.

Group Instruction Efficient.

In order to make this service available to a larger percentage of women, the local leader method which has been so successfully used in other states has been adopted in our own.

Groups of women numbering from twelve to twenty, depending upon the subject matter given, receive instruction directly from the home demonstration agents and home economics specialists. These women in turn pass the instruction on to corresponding satisfaction.

Our local leaders express great joy and satisfaction in being able to con-Union. Through this service, men and duct extension meetings in their own communities. There is a thrill of taking an active part in promoting a better agriculture in Michigan.

One local leader said: "When the home demonstration agent told us that we were to have an all-day meeting I didn't see what she could give us new to take up the whole day, but I declare I never spent such a busy day in all my life, and I wouldn't have missed it for anything."

Local leader work makes possible a more equal distribution of time and effort of all field agents, and it gives a large number of homemakers an equal chance to share in the benefits of Home Economics Extension Service. It also develops unknown talents and sociability, and lends mental stimnever reach the highest ideals until ulation in that great art of home making.

Aims of Extension Service.

We agree with Dr. C. B. Smith, Chief of Office Extension Work, U. S. Department of Agriculture, Washington, D. C., who said that the great goal in extension work is to promote a social. educational and spiritual home and community life that meets life's needs. nutrition has been carried on for the It is not enough to grow more crops past year in both the northern and and make more money. Extension work is seeking to promote a contented people, a people who find satisfaction in their work, in each other, in the glory of the soil, the growing crops, the harvests, the bounteous table, and the neighborly visit. We want the women of Michigan to consider the extension service in home economics as their own. It is not only an opportunity to get the information desired, but also an opportunity to serve. Serving in the home, in the neighborhood, and in the community is a great

Good Mattress and Springs

When Buying Them Look to These Points

of their mattress or springs purchase one. However, that time may be postponed considerably if the proper care is taken of both the spring and the mattress from the time they are first brought into the house. But with It should be beaten-out of doorsthe best of care they will, in time, have to be replaced, and when they do it a month, and it should be turned eve will be well to know a few facts about ry day. them that may help you to make a wise selection.

The spiral spring is used perhaps more than any other, and while they



give universal satisfaction, they are luxury. hard to keep clean. If a spiral in one of these springs becomes broken it may be replaced, thus pro-

longing the life of the springs. The springs made of sections of wire, and having a spring at the end of each line of wire, to afford the high in price. The life of these springs may be lengthened by replacing the little springs.

The woven wire springs, while inexpensive, are not really practicable. They may be improved by running steel rods along the sides to prevent stretching.

The box spring, while the most comfortable, is also the most expensive: but it is ideal for cold climates as it makes for a warm bed. It is similar to a spiral spring and has a thin mattress over it. The whole is then encased in a ticking cover.

Mattresses are quite as important as springs. Perhaps the hair-stuffed

OO many housewives only think high in price. Rough handling will spoil this sort of mattress quicker than when it becomes necessary to anything else, as it breaks the long hairs and thus causes it to lose its spring and buoyancy. For this reason a stick should never be used to beat the dust out of a hair-stuffed mattress. with a flat rattan beater at least once

The cheap mattress stuffed with corn husks, grass or hay, are comfortable and satisfactory as long as they do not lump, but that is not long. In the end, the cheap mattress is a

The cotton-felt mattress is comfort able and inexpensive. It is built of layers of cotton, and then covered with a tick. If they are taken care of, and sunned and aired frequently, they will last for years. We have three of them that have been in constant use for five years and are still good. I have mended small holes in the ticking covers, but the cotton has never packed. "spring" are serviceable and are not . But we never use a mattress without putting a comforter or a pair of blankets between the spring and mattress.

HOME HINTS.

T HUMB tacks hold the ironing sheet securely in place and are easily removed.

Add your shortening to a frozen egg and it will beat up as smooth as any.

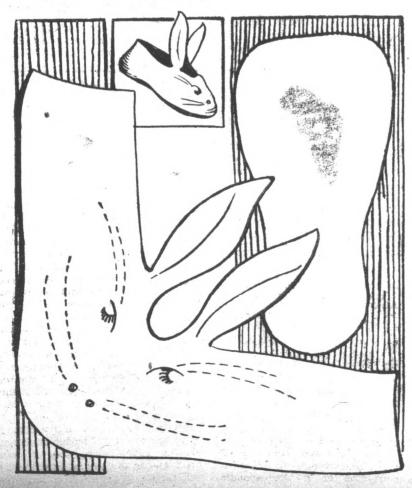
I slice the hams moderately thick. pack in a crock, cover, and place in the oven until it shrinks from the edge. Put a basin containing a weight in the top of the crock until cold. Re move basin and cover thick with lard. This is easier and the meat nicer than are the most popular, but they are when fried to pack down.-Mrs. E. H.

Bunny Booties

HE pattern for these cunning booties cannot be given exactly the size to transfer, for that depends on the exact length of the precious little feet. The sole can be cut from one of his own shoe soles, then the upper is similar to the drawing here shown, only of course it must be as long a line from the center of the bunny nose to the back as around half

First cut a pattern that fits from a square folded diagonally. Eiderdown may be used with the edges ribbon bound, or felt with a shallow blanket stitch.

To transfer the design use blue carbon paper. If you wish to make a larger size extend the sides at the heel.





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THE heat given by the burners of the Florence Oil Range is concentrated right on one spot-right on the bottom of the pot.

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It is cheap, for fuel is not wasted when the heat is focused on the center of the pot—cheap fuel, too, kerosene, and used only when actually cooking.



Cut-away view of the Florence burner, showing how the heat is focused right on

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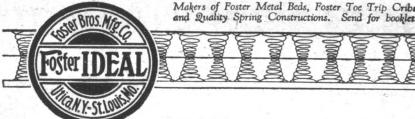
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Shut Doors and Open Ones

By Hazel B. Girard

IMMY was just a plain, new-fashion- parents whose hearts are verily breaked American lad, so bang! bang! bang! went the doors when Jimmy went through the house. Often, however, he left a row of open doors behind him.

How characteristic-how dominant of children! Life to them is just one open door after another. They are always blowing limitless bubbles and chasing potential rainbows-never realizing that authentic greatness comes only through achievement.

It has long been the juvenile idea that some day, not far distant-out there into what we know as the future. that greatness awaits every little girl and boy who has yearned for it. They believe that when manhood and wom-

H APPINESS never lays its finger on its pulse. If we are to steal a glimpse of its features it disappears.-Alexander

anhood is thrust upon them, they have only to shoulder assumed greatness and go on. They forsee no Rubicons to cross, no Waterloos to meet.

There is one beautiful thing, however, about those idle, erroneous dreams of childhood-they are always uprighteous.

No real-hearted, whole-hearted child ever dreams of becoming a bank robber, bootlegger or tramp. Their aspirtions always tell them that some day they will be a musician, evangelist, doctor, or something of equivalent importance.

To be sure, there are the reluctant tary ones.

ing because they cannot give their children the opportunities they would love to bestow. But greater are the number of parents who are indifferent to their children's inclinations, thus shutting the doors of the child's ambitions, forever.

There is nothing under the scintillating, radiating sun that will squelch a farm boy's ambition quicker than to have his persistent over-indulgent parents nag and rebuke him for not taking to carpentry "like Uncle Frank." At the same time his little heart is yearning, his little fingers are tingling to have a pig to call his very own—so that some day he may go to agricultural college-learn about legumes, crop rotation—be a real dirt farmer.

Likewise, there is nothing that will squelch the ambition of a sunkist daughter quicker than to have the parents picture to her the supreme happiness and independence of an old maid school teacher, when she is purely of the domestic art variety. She can make lemon pies and Palm Beach salads that would have staggered Aladdin in the balmy days of the wonderful tamp—can negotiate garments that would have capsized Diogenes completely out of the traditional tub.

Parents should always be on the alert to observe the paramount abilities and ambitions of their children. No one can be a superb success in a vocation not to his liking.

Study carefully and diligently the blue print of your child, thus far; then proceed to shut the doors that should be shut and fling wide open the volun-

Cooperative Housecleaning

A Method That Proved Efficent in One Neighborhood

ed each other during the busy season, had cooperated to the extent of using one tractor plow, one hayloader and other expensive farm machinery Golden June and had found that this in a measure shade. "Dande solved their farm help question Last solved their farm help question. Last spring their wives decided that cooperation would work as well inside the house as out, especially at house cleaning time, and the experiment worked out so well that it will become a permanent plan.

There were five women, living each on a farm but at no great distance from each other, and as time for the annual spring cleaning arrived they met and discussed the problem as women will.

Finally one suggested, that as no woman can go into another's house and clean exactly as that one wishes. in fact, if the truth be told, that no woman likes to have even her dearest neighbor poking into unused closets and sweeping dark corners, that another and better way of helping could

Every woman knows that uninterrupted cleaning is a pleasure, but that the stopping to get meals, to put the

ALMOST TIME.

Almost time for bird songs.

My! don't they sound good
After all the snow drifts
We've been wading in,
Thru the bleak, cold winter
Wishing spring'd begin?
Guess we'll all be happy
When the robins come,

And among the clover Bees begin to hum;

And out in the garden Things begin to grow

Fresh, and crisp, and tender Down each pretty row. Almost time for snow bank,

Now, to disappear.

My! but aren't we happy
When the spring draws near?

—Lillie Flandiers Overholt.

In the shady wood: Almost time for flowers My! don't they sound good?

OR years the "men folks" had help- baby to sleep, or to watch the older children is nerve wracking when she is trying to get mattresses beaten and bedding in before night.

The plan devised by these five gave each a week in which to clean and dates were arranged ahead. The first two days the women cleaned bureau drawers, cupboards, closets, etc., work that did not interfere in any way with meal getting. The third and fourth

N O language can express the power and beauty and heroism of a mother's love.-Chapin.

days were given over to real housecleaning. On the third day one neighbor entertained her and her family for dinner, the provision being that she should not dress but should come exactly as from her work, the men were under the same obligation, and the children came directly from school.

The second day another neighbor was hostess, the guest going back to her work rested and refreshed.

In two families there were children under school age, and these were taken to the home of one of the women (not the one who entertained for dinner) and kept during the day, being returned to their own home by the one who cared for them, instead of the tired mother going for them.

At the end of the cleaning these five women found that what had been most dreaded of tasks, under the new way was a real pleasure, and that her house cleaning week had put no severe strain upon either her strength or the patience of her family.-Mrs. L. M. T.

It has been said that progress lies in thinking well of your business, and most women consider it a privilege rather than a duty to pass on helpful information they have gained.



TO MAKE CREAM PUFFS.

Will you please give me a tested recipe for some good cream puffs?—Mrs. P. S.

To make the paste for cream puffs put into a saucepan half cup butter and add gradually, one cup of boiling water. Place over the heat, bring to boiling point, and boil until the butter is thoroughly melted. Then add one cup flour all at once and stir vigorously. Cook until the mass is thick and smooth and does not stick to the sides of the pan, stirring it constantly so that it does not burn. Then remove the paste and allow it to cool slightly. Now add four unbeaten eggs, one at a time, beating in each egg thoroughly, until the mixture is smooth and pliable, before adding the next When all eggs have been added beat the mixture well. Grease a baking sheet. If cream puffs are desired, drop the paste by teaspoonfuls on the sheet, one and one-half inches apart. Shape with the handle of the spoon so that they are as nearly circular as possible and slightly piled in the cen-Bake thirty-five minutes, when the puffs should be evenly browned, well puffed, dry and light. If cream puffs are baked at too high a temperature for too short a time they will shrink upon being removed from the

Whipped cream, custards, jelly, or crushed sweetened fruits may be used

CLEANING THE WASHING MACHINE.

ONE of the bugbears of the housewashing machine. The suds unites with the free perspiration oils confain- trated is \$2.00 extra.

ed in the pores of the fabric to form a compound insoluble in water. This deposit, or scum, collects on the cylinder and tub and is usually removed with kerosene or cleaners. This requires the removal and replacement of the cylinder, which is a real task.

Cleaning the washing machine thoroughly after doing the washing can be easily accomplished without unnecessary work. Drain the dirty water and dissolve a heaping tablespoonful of lye in sufficient clean water to cover the bottom of the cylinder two inches. Start the motor and let it run for two or three minutes. Cleaning the washing machine by this method will save you time and effort with extremely satisfactory results.

SOUPS ADD VITAMINES TO DIET.

I F your daily menu does not contain a sufficient supply of vegetables, try this recipe.

Tomato Soup.

1 qt. tomatoes
1 pint water
12 pepper corns
5 bay leaves
4 cloves
1 tb. onion
1 tb. sugar

1-8 tsp. soda 3 tb. fat, butter or substitute abstitute 3 tb. flour 2 tsp. salt 14 tsp. per

Simmer first seven ingredients in a pan a half hour. Strain and add soda. There should be one quart of liquid. Combine last four ingredients as in white sauce, add tomatoes and when mixture boils, serve.

THE SMALL HOME.

THE price of the book, "The Small Home," published by the Robert wife's washday is cleaning the McBride Company, New York, is \$2.50. A set of blue prints for any plan illus-



Doings in Woodland

The March Hare

HE month of March had come. The snow was not so deep in Woodland. The merry little breezes did not blow as cold and the sun shone warmer and warmer. The March Wind whistled little spring songs in the bushes and brambles.

Rolly Rabbit was so anxious to wear his new spring clothes with his first long trousers, that he just couldn't wait until Spring really did come.

"See if I care how the March Wind

blows," he said as

he ventured forth. His long straight trousers reached treasured hat. down to his toes, "Blo-ey! Blowhis long coat with ow-oo!" sang the the tail cut like March Wind and that of the swallow, away went Rolly floated out behind. His shiny new hat into the pond. glistened in the sun. Rolly was very proud of his new

hickory cane with its acorn top. To complete all, he even had a monocle fashioned from the bark of the birch.

And so Rolly Rabbit, as the March Hare, sallied forth toward the Woodland village with his spring toggery.

The March wind blew but Rolly Rabbit strutted on. "I'll steal your monocle," said the

jealous March Wind. "No you won't," said Rolly Rabbit as

he grasped it tighter.

"Blo-ey! Blow-ow-oo!" said the March Wind and away went Rolly's monocle.

"I'll steal your hickory cane with its acorn top," whistled the March Wind. "No you won't," said Rolly Rabbit

as he held it fast. "Blo-ey! Blow-ow-oo!" breathed the March Wind and Rolly Rabbit had a hickory cane no more.

"I'll steal your new hat," said the March Wind.

said Rolly Rabbit as he clung to his

"No you won't,"

Rabbit's hat right

"I'll blow your ears off, too." laughed the March Wind as Rolly Rabbit, the March Hare

became very angry. "No you won't," said Rolly Rabbit. "Blo-ey! Blow-ow-oo!" whistled the

March Wind. "Blo-ey! Blow-ow-oo!" whistled the

March Wind still again. Try as hard as he might the March Wind could not blow away the March Hare's ears. But the March Hare went back home and promised never to tempt the March Wind again.

Farming the Nation's Power Crop

NOOD SOIL alone won't grow a crop. It must be U plowed and harrowed, seeded and cultivated.

This was the hard fact faced by a small group of men in Chicago forty years ago. Their soil was the future growth of America; the crop-electric service.

They knew that unless the best thought of the ablest men in the industry could be put at the service of all, it might never fulfill the high destiny they had hoped for it. Thus it was that these "farmers of power" founded the National Electric Light Association, as a voluntary organization of electric light and power companies. Concerned from the first with questions of economy in production and future development, the Association formed committees of experts, the result of whose research was published for the benefit of all members.

Today, representing ninety per cent of the nation's electric service, three hundred committees are engaged in studying the needs of their communities and the problems of the industry as a whole. In its cooperative program with the Farm Bureau Federation, National Grange, American Society of Agricultural Engineers, Power Farming Association, and the U.S. Departments of Agriculture, Commerce and the Interior, the National Electric Light Association is able to speak for a united industry engaged in working out a practical way of serving that larger group of "farmers" on whom the prosperity of the nation must always depend.

NATIONAL ELECTRIC LIGHT ASSOCIATION



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Send twelve cents in either silver or stamps to the Pattern Service Department, Michigan Farmer, Detroit, Mich., for any of these patterns. Be sure to state size wanted, and write your address plainly to avoid delay.

No. 4698—Ladies' Bloomers. Cut in sizes: Small, 27-29; medium, 31-33; large, 35-37; extra large, 39-41 inches waist measure. A medium size requires 1% yards of 36-inch material. Price 12c.



No. 4978—Child's Play Suit. Cut in 3 sizes, 2, 4 and 6 years. A 4-year size requires 2½ yards of 27-inch material.

No. 4922—Boys' Play Suit. Cut in four sizes, 2, 3, 4 and 5 years. A four-year size requires 2½ yards of 27-inch material. Price 12c.





No. 4579--A New Doll and Garment Outfit. Cut in three sizes for dolls, 12, 16 and 20 inches in length. To make the doll in a 16-inch size requires half a yard of 36-inch material. The dress and cap require % yard. The cap alone requires ¼ yard. Price 12c.

The good done by Chamberlain's Perfect Chick Feed reaches into future years. The vigor and fertility of your growing breeders and high production of our layers will reflect the sound constitutions built by this complete food.

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Everywhere poultry raisers are demanding Chamberlain's Perfect Chick Feed. Thousands have learned it brings the greatest economy in chick raising ever known. It's the one and only dry, granular starting food with Animal Proteins, Buttermilk and Cod Liver Oil—ALL COMPLETE IN ONE SACK. Freedom from disease and freedom from death losses in higher degree than ever before is following its use all around you. It brings amazing results even when used to rear chicks from the shell to maturity entirely indoors without sunshine and with-out green feed. Learn what this food means to you.

Plan For Success Now

After forty years of constant experi-ment and observation, Chamberlain's Perfect Chick Feed was developed and Perfect Chick Feed was developed and perfected in dry, granular form; the form most widely endorsed by Agricultural Colleges and Experimental Stations everywhere. Contains in the right proportion the finest known sources of all the vitamines, proteins and other elements needed to build flesh, bone and feathers. Not one ounce of waste. It's appetizing and palatable. Keeps chicks rustling. Brings splendid circulation, good breathing and finest functioning of the nervous system and the digestive and eliminative organs. Plan now to avoid leg weakness, bowel troubles and all the diseases common where ordinary feeds and corn are used. Get amazing results with this scientifically correct complete baby chick starting food.

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If your dealer can't supply you, write for prices on 81-3, 25, 50 and 100-lb. sacks of Chamberlain's Perfect Chick Feed. Please send your dealer's name and address also. Write today.



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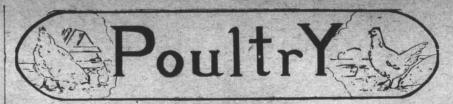




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Feeding for Egg Production

By R. G. Kirby

pay. The birds that lay at less than a substitute for green feed. four months of age do not hold up. A equal parts by weight of bran, midmeat scrap. Then add one per cent salt, two per cent ground limestone, and two per cent acid phosphate.

A good scratch grain ration consists of equal parts of cracked corn and whole wheat. Feed a little of the grain in the morning to make the flock exercise and give all they will clean up at night in fifteen or twenty minutes.

Some Feed Substitutes.

Ground wheat can be substituted for the bran and middlings in the dry mash. Barley is always a good corn substitute and can be used in place of the corn meal. The ground oats are needed to furnish bulk to the ration. Ground whole oats look white. If fourfifths of the ground oats consist of hulls the mixture will have a yellowish caste. Clean animal tankage is as good as meat scrap in digestible protein. When plenty of milk is used, you can cut out all of the meat scrap in summer and one-half of the meat scrap in winter.

Use fine salt and work it thoroughly into the mash. Some hens do not eat enough oyster shell. The two per cent limestone helps to prevent soft shelled eggs and the leg weakness which sometimes bothers hens in the spring. The acid phosphate helps the hens to obtain more good from the protein in the feed. Use two per cent of a sixteen per cent acid phosphate to each 100 pounds of the dry mash.

Good buttermilk or skim-milk is worth five cents per gallon for poultry feed. Keep the dry mash before the hens in open hoppers all the time. Another good scratch grain ration consists of two parts corn, two parts wheat, and one part oats. A ration consisting of one part corn, two parts wheat and one part barley is also good. Hens in fifty per cent production need about two ounces of scratch grain and two ounces of mash each day. Hens that put on fat should be culled out.

Weigh Hens.

Study the body weight of the hens. If the layers become light, give them more grain. If they become too heavy, make them eat more mash by reducing the grain. In cold weather the heavy hens may need twice as much scratch grain as mash to keep up their bodily weight and continue laying. Hens need plenty of water, and carrying water is better than feeding snow.

High producing hens need the best of care in order to lay heavily. There are at least five hens in Michigan that are in the 300-egg class. But if four of those hens were given good care feed for production. and one given poor care, the poorly fed and housed hen might lay about forty eggs and no more. The inherited ability to produce 300 eggs in a year might never show if the hen lacked the material to produce those eggs.

The Pacific Coast poultrymen feed plenty of green feed, even grinding it to force the hens to eat it in larger quantities. Green feed is very essential in stimulating egg production. Feed sprouted oats when the stem sprouts are one-half inch long. Mangels are next best. Slice and feed the mangels in troughs so all the hens will have a chance. Sugar beets are also good. Sliced putatoes and cull apples

N his talk on feeding for eggs dur- are relished by the hens. Hens will ing the college poultry meetings, not eat quite as much cabbage as man-J. A. Hannah stated that making gels. Dried alfalfa lacks succulence. the pullets lay at an early age does not It contains some vitamines but is not

Don't make the hens eat quack grass good laying mash can be made of in the summer. Swiss Chard is a fine summer green feed when plenty of tendlings, corn meal, ground oats and der grass is lacking. A 100-foot row of Swiss Chard will keep twenty hens in green feed all summer. If white corn is used in place of yellow corn, be sure to add plenty of green feed to the ration.

> CRITICISM OF A UNIQUE CHICKEN BUSINESS.

I N your issue of January 17 you pub-h a communication by "H. R." entitled, "A Unique Poultry Business," and which you give first page promi-

This article, to my mind, is fraught with danger to the amateur, or beginner, in poultry raising, or the farmer who is looking for profit along the lines of least resistance.

The article is so full of untruths, that to attempt to follow such a line of action would surely bring loss and discouragement.

To get his flocks and avoid the trouble of free range birds in garden and dooryard, he buys "young pullets in the fall when the price goes off."

Young pullets cost more in the fall than at any other time, unless they are culls or June and July hatches, which never amount to much.

Good stock from standard breeding costs from \$2.00 to \$2.50 per bird.

Pullets from farm flocks are rarely fed so as to produce eggs before spring.

"Skim the cream off of the flock by spring." There will be no cream to skim unless he bought early standard bred birds at prohibitive prices.

"Sell the fowls before confinement tells on them." Confinement does not reduce egg production, or weight.

It is increased with careful feeding and plenty of work. Only breeding birds need range and they do not produce as many eggs.

"By careful watching he has been able to get fine young hens as low as a dollar apiece.'

I wanted a small flock this winter for table eggs and I attended every farm auction in this county that had pullets, or young laying hens, for sale. I have watched the "ads" in the Michigan Farmer and local country papers, and birds that can be had for "a dollar apiece" are not worth carting home, even for meat value.

"Young hens" in the fall molt and rest and usually do not begin laying before March when eggs begin to decline in price so much that it pays one to buy his table eggs rather than to

one keeps poultry only for spring and summer eggs, he will save money, labor and time by buying them from his neighbor. As for revenue, there is none.

"Fine pure-bred stock for a dollar each." Some stock, I'll say!

Pure-bred stock sells at a dollar per bird for eight-weeks-old pullets, and cheap at that, unless one buys June and July hatches, which are worthless as money makers.

But to pass on to the selling of spring chickens and broilers that he has bought the previous fall and winter.

What kind of a broiler would it be,



In 1922 Mark H. Butler, Albion, Mich., bought 200 Rural Poultry Farm Hollywood Mated chicks. Of the pullets raised, a good number laid more than 200 eggs in their first year and one exceeded the 390 mark. So in 1924 Mr. Butler bought 1,000 more Hollywood Mated chicks. We have a big file of letters expressing similar enthusiasm of customers over their success with Rural Poultry Farm chicks. (Names on application.)

Anconas--B'd Rocks--Br. Leghorns

Our Leghorn foundation stock came direct from Hollywood farms. Anconas were bred from H. Cecil Sheppard's 300-egg strain. Large Illustrated Catalog Free

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eggs, not for show feathers. Every chick farm is of a proven egg-laying strain. But beauty prizes also. Barron White Leghorns, Barred Rocks, Brown Leghorns. ORDER FROM THESE PRICES.

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Mating, Barron White Leghorns and Mottled Anconas. Selected Utility
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Anconas. FAIRVIEW
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Barron White Leghorns Anconas White Wyandottes

Fancy Stock at Right Prices White Leghorns (270-300 ancestry) ... \$13.50 per 100 Sheppard Anconas (300-egg strain) ... 13.50 per 100 White Wyandottes (Evergreen strain) ... 18.00 per 100 Odds and ends, brollers 10.00 per 100 Shipped by parcel post. Safe arrival guaranteed.

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CHICKS OF QUALITY

Blood Tested Flocks. Selected utility mating Barred Rocks, Rhode Island Reds. Also Foreman Strain of Barred Rocks. Delivery guaranteed, bank reference. Write for prices. Krueper Poultry Farm & Hatchery, R. 3, Milan, Mich.



LAYERS! That's what you want. Standard Chicks are from just that kind of flocks. Our strain of Supreme Laying white Leghorns is the result of our many years experience, breading and selection. They are large sized, long deep wedge shaped bodies, keen alert eyes, large lopped combs. The kind you will be proud of and eventually buy. Shipped postpaid. 1006 Live delivery guaranteed. Illustrated catalog sent Free.

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GEO. H. LEE CO., Dept. 1071 Omaha, Neb .

bought the previous fall or winter and sold in the fall at "fancy prices."

Broilers are not over eight to ten weeks old weighing from a pound and a half to two pounds, hatched in March and April and sold in May, June and July, ranging from fifty cents to thirtyfive cents per pound as the season advances.

Broilers in the fall are from June and July hatches, feeble, stringy and tough, not wanted in market and are mighty poor eating.

Springers come along in the fall ranging from three to four pounds, selling from two to three cents a pound over fat hen prices and are not so edible.

But why go on-I hope the "woman with the small farm" doesn't try it, and if this writer made a success of it, it was a miracle that won't happen oftener than we have total eclipses of the sun.-Edward A. Brooks.

LAME HENS.

My chickens seem to go lame. After a day or two there is a whitish diarrhea. They don't eat scarcely anything, just sit huddled up. Have lost three. I feed them oats in litter, and corn is fed chopped up. All the green vegetables they will eat, such as carrots, cabbage and beets. I also cook the oats with potato parings, sometimes give a mash of corn and oats ground together. Their dry mash consists of equal er. Their dry mash consists of equal parts of corn meal, ground oats, middlings, bran and meat scraps, but have taken this away as a possible cause. House is tile, and very damp, but has plenty of ventilation.—G. G.

The dry mash you are using is a great help in preventing digestive troubles and would hardly be a cause of the lameness or bowel trouble. Lameness combined with bowel trouble and rapid emaciation is a sign of tuberculosis, although scientists tell us that a laboratory examination is necessary to accurately determine that fact. If you suspect tuberculosis in the flock, perform a postmortem and examine the liver for greyish spots.

If you have a large and valuable flock, it will pay to have a veterinarian make an inspection. In the meantime, isolate all sick birds and those which appear lacking in vigor. Dampness might cause rheumatism which would make the birds lame. A house is usually damp because of lack of ventilation, overcrowding, old litter or soil moisture. The floor should be built up about a foot above the outside soil.

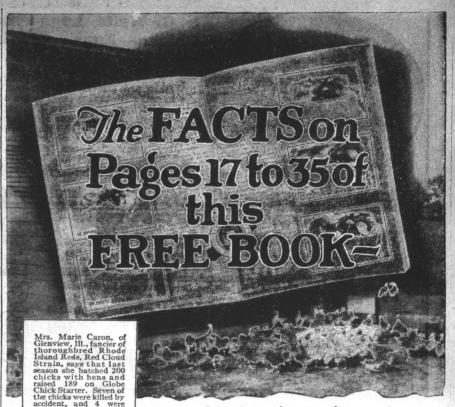
POULTRY IN OTTAWA COUNTY.

OUNTY Agent C. P. Milham, of trymen at the Round-up Institute, on the poultry industry of his county. He said that Ottawa county is ideal for poultry because of the effect of the lake on temperature. It is ten per cent warmer in winter and ten per cent cooler in summer than in Milwaukee, just across the lake. Eighty per cent of the people are Holland Dutch, who take pride in live stock and poultry and are good feeders.

A large per cent are farm owners and the county contains poultrymen who pay an income tax. Some of the hatcheries turn out about a million chicks per season. The total is close to eight or nine million and will probably reach ten million chicks per year. counting all that are hatched on the small farms. As many as 20,000 chicks are sometimes seen on one truck ready for shipment. They use pre-cancelled stamps on the boxes and load the chicks directly into the cars.

The M. A. C. poultry department has in the last four years done millions of dollars of good in Ottawa county and has done much to make friends for the college. The Michigan poultry house is giving good satisfaction. There are three poultry associations in the county. The Holland association has existed twenty-five years, Zeeland for fourteen years, and Grand Haven for three years.

Sandran Barrell Spring Danty



enabled others to raise 95 out of 100 chicks

THE information in this poultry book (copy on request) has enabled thousands of chick raisers to save greater percentages of the chicks hatched. Now available to all. On the pages named you will find vital scientific principles of chick raising not known to the average poultry owner—the ignorance of which has cost poultry raisers millions of dollars.

Foremost authorities have assisted in writing this booklet "POULTRY PROFITS." Whether your flock is large or small, every extra dollar of profit you can make in chick raising or egg production means just that much extra in your bank account. "POULTRY PROFITS" contains the boiled-down "best ways" of making more money out of your poultry.

Chick Starter Egg Mash Growing Mash Fattening Mash Molting Mash Chick Scratch Growing Scratch Poultry Scratch

The Facts you'll get on Chick Raising

The pages referred

to will give you an understanding of how a chick's digestive system works—what to do and what not to do in raising chicks. They will show you where you made costly mistakes in the past and explain the principles a success-tested planthat enableshundreds of men and women to raise to maturity 95 out of 100 chicks hatched.

Thousands have already sent for this *free book*. It's *different* from any other on the subject. Those who use our poultry feeds declare it a contribution to the poultry industry second only in importance to Globe Poultry Feeds.

Why best informed chick raisers use Globe Chick Starter

Experience has taught them they make more money—raise more chicks using Dickinson's GLOBE CHICK STARTER than any other chick feed they can buy or mix.

The reasons why so many use nothing but GLOBE CHICK STARTER are simple. The Globe Brand is made with just one purpose in mind—results. Compounded of the highest quality of ingredients obtainable (the best animal, vegetable and cereal proteins, perfectly combined with health-giving vitamines and minerals) into a really uniform mixture. This last point is extremely important.

The use of the Globe Method eliminates guesswork and

The use of the Globe Method eliminates guesswork and bother. When used as explained in "Poultry Profits," you can secure results as good as the most experienced poultry raiser. GLOBE CHICK STARTER makes chick raising easy—and more profitable. Globe Feed made today with an eye on tomorrow.

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Ask your Globe Merchant for "POULTRY PROFITS" or Mail This Coupon

If you want to raise more of your chicks, don't wait. If you want to make more money out of poultry, don't delay. Sending for this helpful booklet puts you under no obligation.

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Vital Questions This Book Answers

Why a special starting feed? What eggs should be selected for hatching?

What are the main points of incu-bation?

What hatch should be expected from 400 eggs?

What type of brooder is best? Which is the best breed?

Which breed is the most profitable? Should the poultry raiser breed for meat or eggs?

What is the best way to start? How can poor layers be discovered without a trap nest?

How can a hen's egg production be determined in advance?

What type of hens make the best breeders? What is the truth about pedigree?

How many females should be put with a male? What is the secret of culling?

How can fertile eggs be insured? How can egg yield be increased? What is the relation of vitamines to egg yield?

Can electricity increase egg yield? What is the most economical method of fattening chickens?

What type of chicken house is best? How should it be ventilated?

What are the most deadly chicken How can they be cured or prevented?

What is the best way to feed poultry for profit?



THE ALBERT DICKINSON CO. 2755 West 35th St., Chicago, Ill. Gentlemen:

Please send me without cost or obligation a copy of your booklet "Poultry Profits". I enclose 4c in stamps to cover cost of packing and postage.

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	Address		 	



S. C. White Leghorns Chicks—Eggs—Stock

From world-famous layers. Tancred strain, 250-280. Barron strain, 230-270. Birds culled by experts from the state university. All our pens are mated with males from dams of high records. 100% live delivery guaranteed. 5% discount on orders placed before April 1. Write for our illustrated catalog showing our poultry show winners. "Regular Egg Machines," said W. W. Zike, judge of Holland show, after looking over our pen. ing over our pen.

Reliable Hatchery and Poultry Farm, Box3 Holland, Mich.



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OHIO ACCREDITED CHICKS QUALITY SUARANTEED OMO POULTRY IMPROVEMENT ASS'N

Pure-Bred Big Value BABY CHICKS

OHIO ACCREDITED CHICKS are produced by this Hatchery. Every bird comes up to the standards set by the Poultry Department of the Ohio State University, and every breeding bird has been inspected and leg banded by inspectors trained by them.

Healthy Chicks Mean Larger Profits

Breeds We Offer:

S. C. White Leghorns,
S. C. Buff Leghorns,
S. C. B

The health of our flocks is of the very best. We keep our birds in the open on free range under natural conditions and they have the vitality to produce happy, healthy, lively chicks which grow into profitable birds. Our flocks have been carefully culled and bred for years for high egg production. egg production. Special Combination Offers—Write Today for Free Catalog.

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The above selection will give what you need, whether you want eggs, meat, or both. Write us.

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Prices on 25 50 100 500 1000

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White, Brown & Buff Leghorns, Anconas ...\$3.75 \$7.00 \$15.00 \$60.00 \$115

Barred Rocks, S. C. and R. C. Reds ... 4.25 8.00 16.00 70.00 138

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Mixed assorted, 100, \$10; 500, \$50. Mixed all heavies, 100, \$12; 500, \$58.

INVINCIBLE CHICKS are hatched from flocks that have been carefully selected, inspected and culled by an expert holding Ohio State U. Certificate. We don't believe you can buy better Chicks ANYWHERE for the price. That is why they are INVINCIBLES—they can't be beat. We want your order this season and will give it our most careful personal attention so as to convince you that this is the place to buy your Chicks. Guaranteed free from new European disease, Reference: Farmers' and Merchant's Bans. You take no chance in ordering Chicks from us. Order right from this ad or send for fine free Color Plate Catalog.

THE ARCHBOLD HATCHERY, INC. BOX 33 ARCHBOLD, OHIO. E. E. RUPP, Mgr.

YPSIFIELD HIGH GRADE CHICKS

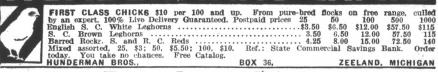
Ref., First National Bank, Ypsilanti. This is not primarily a Commercial Hatchery, but the Hatchery Department of our modern Egg Farm, established from 20 years' experience in breeding and prolific egg production. YPSIFIELD EGG FARM HATCHERY, Ypsilanti, Mich.

Early Maturing BABY CHI

From Pure Bred, Blood Tested Stock

All of our breeding stock has been tested for Bacillary White Diarrhes, and Culled for Egg Type and Standard Requirements. This should greatly aid in the control of White Diarrhea Troubles. Write for prices on our B. P. Rocks, B. I. Reds, White Wyandottes, W. P. Rocks, and S. C. W. Leghorns.

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Dundee Chicks

Stock all Pure Bred and Blood Tested for Baccillary White Diarrhea. This assures you of more healthy, sturdy chicks. The kind that live and grow into money making flocks. Flocks have all been thoroughly culled for years by experienced men. Four Leading Varieties: Barred Plymouth Rocks, Rhode Island Reds, S. C. Mottled Anconas, S. C. English White Leghorns.

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Sturdy, strong, vigorous Chicks from good, pure-bred, bred-to-lay flocks on free range. We have been producing Chicks for many years and KNOW HOW to satisfy our customers. 100% Live Delivery Guaranteed.

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CHIX we make no extravagant claims. We know you want GOOD CHICKS and flocks, carefully selected. Our business has been built up by having satisfied customers. 100% Live Delivery. Postpaid prices on 25 50 100 White, Brown & Buff Leghorns. \$4.00 \$7.50 \$14.00 Barred & White Rooks, Reds, Anconas. \$4.25 \$0.00 15.00 White Wyandottes, Buff Rocks. 10% discount on orders for 1000 and over. Ref., Branch County Sayings Bank. Order right from this ad. COLDWATER HATCHERY. BOX 55, COLDWATER, MICHIGAN.



CARE OF GOOSE EGGS.

Will you please tell me what to feed my geese to get fertile eggs? For the last two years my eggs have not hatched well. So this fall I changed ganders. I am feeding corn on cob. They have all the alfalfa hay, or chaff, they want, with plenty of fresh water.—Mrs H. D.

Goose eggs show a large per cent of fertility and hatch poorly when the breeding stock are fed heavily on corn until they become overfat. Oats are a better feed for breeding geese, and both corn and barley should be used sparingly. A good mash to use just before laying season consists of two parts bran, one part ground oats and one-fourth part corn meal mixed with buttermilk or sour milk. This gives the geese the materials for heavy egg production but does not put on much fat, like a corn diet. Plenty of green feed is essential.

Early in the spring the goose eggs are often laid on very cold days. They must be gathered often to prevent chilling. Badly chilled eggs often fail to hatch and the blame is placed on the breeding stock.

The eggs should be stored in a cool room the same as hen's eggs. A temperature from fifty to fifty-five degrees will be satisfactory. Eggs stored in bran seem to show less evaporation if they are to be held several weeks. It is well to remember that fresh eggs hatch the best and turn out the most vigorous goslings. So do not hold the eggs longer than necessary, and date the eggs as laid, to prevent keeping them too long.

BROODER CHICKS DIE.

We have a flock of three-week-old chicks which, for about a week now, have been dying. They get so they cannot walk or stand on their feet. They eat and drink well, but keep getting weaker and in a few days die. We have been feeding them rolled oats and sour milk the first few days, then a little bran each day. Now they get all the bran they want, besides two feeds of rolled oats and one light feed of corn meal each day. Have had renty of water. Thought they had leg weakness, but it seems as though they would get over that as they have been on ground every day for over a week. on ground every day for over a week.

—M. B.

You do not mention the method of brooding the chicks, but overcrowding, chilling or overheating in the brooder may have caused weakness during the first few days and it is now showing up when the chicks are out on the ground. I have noticed that a brooder house full of chicks may seem all right until first turned out on the grass, when a few of them promptly show up their weakened condition. After these chicks have been culled out, the remainder of the flock soon begins to grow rapidly and losses grow less.

In a flock of several hundred incubator chicks under a stove brooder occasional losses are to be expected until the chicks are several weeks old. I think weak sparks of life in the hatching eggs laid during the winter are responsible for some of the losses. Early hatching is all right but I think many poultrymen are beginning to feel that chicks can come out too early. This often results in a heavy mortality and less profits than are made from April and May chicks which grow rapidly when they are hatched.

TURKEYS AND CHICKENS.

HERE is a little thing I have found out about turkeys told that they could not be raised with chickens and be shut up. I have only two, and they have not been outside of the chicken house all winter, and they are doing fine. They get oyster shell, grit, mash, sour milk and grain, the same as well cared for chickens do.

Last year I bought red turkeys. They were wild, and went off to the woods to lay. The season being wet, they came off with small hatches. The tur-keys I have now are tame and I like to raise them with chickens and a few geese, as I can do the work without the aid om a man.—Mrs. M. E. T.





IRONCLAD INCUBATOR CO. Box 83 Racine. Wis





Tancred and Barron W. Leghorns. S. C. R. I. Reds Barred Rocks High quality, low in cost Satisfaction and 100% live delivery guaranteed.
Big illustrated catalog free.

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Box 100,



That's what you get when you use a ark ACTION

HARROW

It saves time, labor and horsepower but gives you a deeper, finer seed-bed. Once over with a CLARK "CUTAWAY" Double Action Harrow is better than twice over with an ordinary single harrow. A size for every farm. For horse or tractor use

FORGED EDGE DISKS OF CUTLERY STEEL

The disks on all CLARK "CUTAWAY" Harrows have the edges forged sharp. No other make of harrow has them.

Write today for address of our Michigan distributing house, also complete catalog and valuable free book, "The Soil and Its Tillage."

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White Leghorns Tancred-Holly wood-Barron strains Anconas Sheppard Strain, direct Bar'd Rocks Parks dark colored

5% Discount
On all prepaid orders placed 30 days before shipment.

THREE MATINGS
Special Star: White Leghorns, 250-288 males. Anconas, Sheppard males. Extra Selected: All breeds, culled by experts. Selected: Personally culled; very high egg type.

100% Live Delivery Guaranteed. Catalog Free TOWN LINE POULTRY FARM R. R. I, Box 15, Zeeland, Mich.



If you want healthy, vigorous, purebred chicks from flocks carefully selected and tested for heavy laying and standard qualifications typical of the variety they represent, chicks that will mature quickly and improve your flock, then you want "SUNNYBROOK" chicks. We specialize in S. C. W. Leghorns, \$18 per 100; Barred Rocks, \$15 per 100; Rhode Island Reds, \$16. per 100; and white Wyandottes, \$18 per 100. In lots of 500 or more 50c per 100 less, 100% live delivery guaranteed. Postage paid. Catalog free. SUNNY BROOK POULTRY FARM, HILLSDALE, MICHIGAN.

FirstAve. Hatchery

Chicks from heavy laying strain, S. C. White Leg-horn, mated with Eckard Cockerels from M. A. C. Also chicks from old hens, fine birds, culled stock. If chicks wanted don't delay. Orders are coming. Send for price list and order Early.

FIRST AVE. HATCHERY

Holland Mich.
EGGS from Ringlet Barred Rocks \$5.00 per 100, \$2.00 per setting. Robert Martin, Woodland, Mich.



W. LEGHORN,-BLACK MINORCA-ANCONA

ARCUNA
Official International Egg Contest
Records up to 254 Eggs.
Few can equal our PRICES.
No one can beat our QUALITY.
Before ordering your 1925 chicks send
for our CATALOG. Our LOW PRICES
will astonish you

Established Sent by PARCEL POST PREPAID, in 1904 100% Live Delivery Guaranteed. PINE BAY POULTRY FARM, Holland, Michigan.

Highland Leghorns

Tancred-Hollywood-Barron Sired S. C. W. Leghorn chicks. Bred to lay stock. All free range. Early maturing. Best winter layers. Selected 100, \$12.5 co. \$92.56; 1.000, \$120. Selected Star A 100, \$15; 500, \$72.50; 1.000, \$140. Postpaid. Full live arrival guaranteed. Illustrated catalog free.

paid parcel post to your door, satisfaction and a live delivery guaranteed.

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R. 3

Kalamazoo, Mich. R. R. 3

BABY CHICKS

\$12.50 Per 100 and Up
We are listing 12 varieties of Pure Blood Farm
range stock. Chickens, Ducks and Guineas. Write
for price list. CLINTON HATCHERY & POULTRY
FARMS, Wilmington, Ohio.

BABY CHICKS and DUCKLINGS

Rhode Island Reds and Barred Rocks. Utility bred. Also extra selected quality Reds and M. A. C. strain Barred Rocks. From stock carefully selected for health and egg production. White Pekin Ducklings. Write for circular and price list. Goret's Poultry Farm & Hatchery, Corunna, Mich.

RURAL HEALTH By Dr. C. H. Lerrigo

YOUR CHILD SHOULD BE 100 PER GENT.

OOK over any schoolroom in your county and you will see a bunch of clean, hearty, happy children. Nothing wrong with them, surely. Yet the law of averages tell us that three in four have some physical defect, the removal of which will make for better health and help the process of growth into perfect manhood or womandhood.

A county in Minnesota was selected for physical examination by a competent doctor. Three thousand nine hundred thirty-four children were examined. Defects that could be prevented or remedied were found in eighty-two per cent of the city children, and in seventy-three per cent of the country children. Many of these defects were in the teeth. Malocclusion was common. The term describes a condition in which the teeth do not meet correctly for the bite, the upper teeth do not come down properly upon the lower. Often this is due to loss of temporary teeth before the permanent ones come down in the jaw. This can be corrected by the dentist. Among the city children seventy-eight per cent had decaped teeth.

Thirty per cent of the children were more than seven per cent underweight. They needed more milk, green vegetables and whole wheat bread in their diet.

Diseased tonsils were found in many children but not to so great an extent as formerly. Ten per cent of city children and sixteen per cent of those in the country needed tonsil surgery.

Seventeen per cent showed symptoms of more or less definite enlargement of the thyroid gland (goiter).

Speech defects were not common but some seventy children in the country had enough trouble of this kind to need correction.

Do not wait for a school examination to see if your children need help. Have them examined now by your own family doctor. The best time to correct physical defects in children is at the earliest possible moment. Your child should be 100 per cent efficient.

CHILD BITES NAILS.

How can I break my three-year-old child from the habit of biting her finger nails? She seems to swallow them and I fear that it will make her sick. -S. B.

Covering the nails with adhesive plaster will help, but it may be necessary to put a pasteboard splint on each elbow so that the child cannot get her hands to her mouth. This is a very bad habit and indicates some fault in the nervous system. The child should be studied from every angle to see just where the fault lies.

PAINS IN BREAST.

Highland Poultry Farm
R. 9, Box C, HOLLAND, MICH.

Barred Rock Baby Chicks
We hatch only Barred Rock Chicks from choice selected stock shipped by pre-

out pregnancy. It may simply indicate a glandular activity that is due to some irritation of the pelvis. The milk is not the cause of the pain. With the history you give, it is important that you have a very thorough physical examination by a skilled doctor and thereby save yourself from future and worse trouble.

When Helvin Hogan gets the blues he always talks of going to town. But since Ma Hegan told him to go ahead for all she cared, he don't talk about it any more.



EGG BRED

wood, Tancred and Barron English, the highest obtainable grade of each. On the male side the trapnested records are from 288 to 304. The ancestry of the hens is 260 to 290 eggs. At the International Egg Laying Contest of 1924 a pen owned by us averaged 233 eggs. High bird, 265. Get our catalog for full information regarding Wyngarden chicks.

for regarding Wyngarden chicks.

BROWN LEGHORNS

ANGONAS
BARRED ROCKS

THATCHERY & FARMS
ZEELAND, MICH., BOX M



BRED FOR SIZE, YPE and EGGS SINCE 1910.

English WHITE LEGHORNS

The Big, Deep Bodied Hens with the Large Combs, That Produce the Large White Eggs.

The chicks we offer you this year are from extra selected hens, sired by males out of hens that laid 270 eggs in 365 days these males being sired by a male from a 300 egg hen. The price asked for them is very reasonable. They will bring you bigger profits and absolute satisfaction.

You will be benefitted by our 15 years experience hatching and shipping chicks. Our stock grows up uniform in size, has great vitality and brings big returns in our customers' hands. Let us mail you our catalog with prices. 100% live arrival guaranteed.

ININE WEEKS OLD PULLETS IN MAY.

WOLVERINE HATCHERY

H. P. WIEREMA, Prop. R.R. 2, Box 97 Zeeland, Mich.

ONE MILLION"GOOD LUCK" CHICKS LEADING BREEDS - - LOWEST PRICES!



KEYSTONE



BIG HUSKY CHICKS Pure-bred, high quality, heavy laying, tested flocks. These pullets will make excellent Winter layers, 100% Live Delivery Guaranteed, Bank Reference. Varieties. Postpaid prices on 25 50 100 500 1000 S. C. White & Brown Leghorns. \$3.75 \$7:25 \$14.00 \$87.50 \$130 Barred Rocks, R. I. Reds. 4.50 \$5.0 10.00 77.50 150 Anconas, (Extra Good Sheppard) 4.00 77.5 15.00 72.50 140 Mixed Chicks 2.75 5.50 10.00 50.00 10. Extra Selected Stock, \$2:00 per 100 higher. A liberal discount on orders booked before March 20. All are hatched in modern machines. Each order carefully packed personally. Free circular. WINSTROM POULTRY FARM, BOX C-6, ZEELAND, MICH.



DILIGENT CHICKS DID IT

lomer Hatchery (

From healthy free range flocks culled and mated with cockerels purchased direct from breeders who have a reputation for high egg production and color, assuring you strong healthy chicks that grow into money making flocks. Shipped Parcel Post prepaid; 100% live delivery guaranteed. A trial order will convince you. Write for catalogue and prices.

HOMER HATCHERY, HOMER, MICH.





CHICKS Barred Strain. Bock, White Leghorns Guarantee cuistoff adire. Free Delivery. HILLVIEW FOULTRY & HATCHERY, C. BOVEN, Prop., R. 12-B, HOLLAND MICHIGAN.

Favorite Breeds---Famous Strains Exhibition and Utility Prize Winning blood, from healthy, expert culled flocks. W. Leghorns, Anconas, W. and B. Rocks, R. I. Reds, and W. Wyandottes, LAYERS. Free chicks with advance orders. Guaranteed. Catalog. HAIGHT .HATCHERY, Codar Springs, Mich.

Your Neighbors of the Things You Have to Sell Through The Michigan Farmer



Lusty, Fast-Growing **Money Makers**

Superior baby chicks are bred-to-lay birds. They are trap-nested from world champion layers such as the internationally famous Tom Barron and Hollywood strains of White Leghorns.

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INTERLAKES FARM, Box 39, Lawrence, Mich.



About Dreams and Dreamers

Dear Uncle Frank:

What do you think of these day dreams? I find it doesn't get me very far to dream. I think dreamers are left at the bottom of the ladder to watch the active ones climb.

When I dream I have my eyes shut and maybe my mouth open, and making a lot of racket and disturbing the peace of my fellow bunkle

You couldn't guess of whom I dreamed last night, so I will tell you. Don't say it was by beau, because this maid doesn't have such things to disturb ture once. her peace of mind. Besides, my one hopeless ambition has always been to be a beau myself instead of a belle. Funny, isn't it?

Well, I was walking along holding onto my daddy's little finger when I saw a long line of boys and girls running and skipping along after a tall, gruff looking man with a thick grizzly beard, and his hat to one side. He was evidently charming them along as the Pied Piper did in days gone by. The boys and girls were all carrying pencils and pad, some doing cross word puzzles, some word contests, and others drawing pictures. The gruff looking man had his pockets full of letters and his hands were busy handing out prizes and writing answers to the letters.

I tore away from the protecting hand of my father and followed the crowd slowly working myself up to the head of the ranks.

"Say, Uncle Frank," I called, "I want to thank you for that box of candy you gave me." At the sound of my

to the big, gruff man, and asked me how I dared. I said, "Why, that's Uncle Frank," and got busy at a cross word puzzle he had given me, as if that explanation ought to be enough to satisfy anyone.

It was a strange dream and I woke up to realize I had not thanked you yet for the candy. So I thank you now and hope that next time I will receive second prize.

I know you do not look like you did in my dream, because I saw your pic-

It is strange, is it not, Uncle Frank, how people can dream of things they never saw? I dreamed one night of Resurrection Day. And, although I very seldom remember my dreams, this one was impressed so strongly on my mind that I remember it to this day. It was night and the stars and moon shone out as brightly as any other night, when the graves opened up to give up their dead. And though many had been buried in black, they were now all robed in purest white and not a soul spoke. It seemed like they had changed places after they were buried, because each found his loved one rising next to him and they all joined hands. But things of beauty and splendor never last in dreams, for I awoke before it was finished.

I am wishing luck to the "White Amaranth" and the "want-to-be teacher," because I think that those who follow their ambitions are bound to win .-- Ann Mulder, M. C., Grand Rapids, Mich.

you gave me." At the sound of my voice the big man turned with interest, but at my word of thanks he shrugged his shoulders and said modestly, "Ah, Shucks," and then walked on.

My father was amazed to see his bashful little "darter" speak so freely Myou had some unique dreams. I wonder what you ate for supper to dream of me. There are dreams and dreams. Some dreams are ambitious and it is our duty to ourselves to work to make such dreams come true. I am glad you added the last paragraph, especially after having written the first. "Ah, shucks!"



The U & I Canning Club of Livingston county, has won thirty-seven first premiums, thirteen seconds, and six thirds at the Howell and Fowlerville Fairs. The members are Inez Buckley, Ruth Ever, Daisy Roberts, Elben Wasson, Marion Levine, Ruth Levine and Carlie Dyer. Helen Cotrell is the leader.

bers and have lost their buttons can buy them.

Dear Uncle Frank:

Dear Uncle Frank:

How are you these nice days?
I only wish it would snow again so I could go hunting. Do you?
I got a twenty-two rifle for a Christmas present, which was the best present I could have gotten.

When I get my work done in the morning I put on my knickers and my boots, and off I go, and sometimes I don't get home until 3:00 o'clock in the afternoon. I never like to come home without anything.

Sometimes I get five and six rabbits and sometimes only one.

You probably think when you start out and read this that I am a boy, but I am not.

out and read this that I am a boy, but I am not.
My nick-name around our place is "Buckshot." Some name, isn't it?
I have bobbed hair and I wouldn't have it grow long for anything, although they say long hair is coming in style.—Another M. C., Good-bye, everybody M. P. everybody, M. P.

I bet you are some sure shot, but you missed your mark when you didn't sign your name. Perhaps you will be a second Annie Oakley.

Dear Uncle Frank:

Dear Uncle Frank:

We girls always said that it was easier for the boys to get water than it was for us to wash dishes. So we asked the boys if they would change and let us girls get the water, and they wash the dishes. They said they would. So the next day my sister and I got the water while my brother and another boy washed the dishes. They never rinsed the dishes off before they washed them. My brother dropped the dish towel on the floor, and my teacher had to wash it. At first she said she was going to make him wash it, but she said Monday was her washday, so she would do it. We girls are still getting the water and the boys are still washing the dishes.—Your niece. Wilhelmina Zachlke, R. 7, Box 70, Albion, Mich.

That's a good way. Change about and really find out which is preferable. Of course, after the boys washed dishes for a while they might get used to it, but I've tried both and I like carrying water better.

Dear Uncle Frank:

Just a word in regard to "cross word" puzzles. First, I must mention the disrespect some have for bobbed hair and knickers.

I wonder if that fad caused as much trouble in families as "cross word"

puzzles.

Not only that, but young folks neglect their lessons in order to solve these crazy "conglomerations."

these crazy "conglomerations."

I, for one, cannot enter into these contests and do justice to myself.

I would like to hear what others have to say on the subject.

The question is, "Are Cross Word puzzles a detriment or a benefit to the public?"—Rex Ellis, R. 2, Richland.

Perhaps Rex has started something. I know, at least, that the cross word puzzles have. Let's have some opin-

OUR LETTER

Hello! Uncle Frank:
Why, you dear little soul! Gee, but you're just as homely as ever. I suppose you think I look like somebody. But I am the berries, peaches and cream. What is the matter with the M. C.'s, they write such dry letters. In the peach of the same cream is a supply and it is to see creat ones. I naturally and it is to see creat ones. like to see crazy ones. I naturally am

crazy, anyway. Say, Uncle Frank, I bet you are an old bachelor. I know of a man that was called Uucle Lisha, and he would never tell how old he was. But one of the cousins got to know him, and

of the cousins got to know him, and this cousin wrote and told the rest how old he was. And, oh, boy, he sure got a lot of letters from the girls.

I suppose some of you think this is a boy writing, but it's not, it's just a Tom Boy. One that powders, paints, shingles, and uses matches for eyebrow pencils. Will close with lots of love from Happy-go-Lucky.

You guessed right. I'm as homely as ever, but I got some of my teeth



Stella Toth and Brother Mike. Sport

crazy all the time. I'll bet you whistle. I'm not telling my age because, if I did none of the girls would write me.

Dear Uncle Frank:

Although I am lazy and a silent read-Although I am lazy and a silent reader, I will answer a contest. I became a member of the Merry Circle, either in 1922 or 1923. The reason I have been a lazy bird is because I have been sick in bed for nearly five months, and I am in bed yet. I don't like it very much either, but I would like to get well. I thought maybe I would win a prize if I tried my best. I have never written you before. written you before.

I hated to miss my eighth grade in

I hated to miss my eighth grade in the country school this year, but I must get well before I ever go back to school. My sister is sick, so she had to quit high school. She has been sick nearly as long as I have,

My little cousin is here now. We have lots of fun together as long as I am in hed

as ever, but I got some of my teem left and I still have enough hair to part. I agree with you that your letter is a crazy one. I hope you aren't some Rhode Island Red chickens. I had fourteen goose eggs and only got two geese out of them. Ha, Ha. My brother bought an African goose, so we have three now. I think they are we have three now. I think they are very pretty, only the African goose has such a long neck and a funny looking bill. I like them better than ducks and they are easier to raise.

How much are the M. C. buttons, Uncle Frank? I don't want to be without one, because I lost mine.—Your loving nephew, Lawrence Jumper, St. Johns, Mich., R. 5, Box 71.

I am certainly glad to hear from

I am certainly glad to hear from you, but I am sorry that you and your sister have been sick so long. It is my sincere hope that both of you will get well soon. M. C. buttons cost ten cents, but only those who are mem-

Should a Girl Whistle?

Opinions of Prize Winners

By Roscoe Bloss, M. C., Dunningville, Michigan.

tle if she cares to. It would be indeed folly to deem this harmless recreation unladylike. The modern girl is so full of ambition and pep that if she indulges in a little harmonious whistling she is only telling the world that she is happy and alive with the good old American spirit.

Whistling is an art which, though not nearly as great, or as fully recognized as singing, nevertheless has many followers. Amongst these are many accomplished lady whistlers and imitators. None of these ladies are barred from society that I know of, nor have they any right to be treated in such a manner.

And, here is an argument which should convince some. If girls whistle more they are bound to talk less, and we boys would appreciate that, eh,

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Of course, we all agree that unharmonious whistling, whether perpetrated by boys or girls, is an unhuman act, but if the girls will keep away from this form of torture, I say, let them whistle.

By Donna Scribner, M. C., Bancroft, Michigan.

Why, of course a girl should whistle if she wants to. Why not?

If a girl is that full of pleasant thoughts and good cheer that she just has to pucker up her lips and let some of the merriment out onto the world, I should think everyone would be glad of it. You never see people whistling when they are thinking bad, unpleasant things.

Some one says, "It annoys the old folks." Well, let it annoy. They were once young and full of spirit and should not be rough on youth now. So, girls, when you see the frowns coming, don't stick 'round, but just grab the milk pail or lantern and run to the barn, and whistle, whistle, whistle and whistle.

It seems to me that the world is much brighter for the merry whistle of the young; and just because a girl happens to be a girl, why should she be barred-from scattering the symbols of good cheer?

A girl who whistles and romps, is a more real live animal than one who sits and tats, crochets or reads her life croft, Mich. away.

Why do they have music in the army? Just to keep the spirits up. Mich. One can walk much farther to the strains of pleasant music, than without it. So it is with the whistle. Just try whistling when you go after the cows or on an errand, and see how much easier the task is done.

It is not unladylike to whistle, but, of course, there is a time and place for everything. So,

Whistle and hoe, Sing as you go, And shorten the rows By the tunes that you know.

By Blanche Cook, Elsie, Michigan. Whistle and hoe, sing as you go. Shorten the rows by the songs you know.

How true this is, but does the boy spoken of in this song have any longer row to hoe, than his sister? Is his row any longer, the ground any harder, or more weedier than the row a girl must hee? We know it is not.

Aren't we all more contented and happy at our work if we are allowed Circle button and card if you are to whistle or sing? Our work is not not an M. C. so hard if our thoughts are joyful ones, and how can we have joyful, happy thoughts if not by a cheerful whistle or song?

A cheerful whistle not only helps a boy to forget his own troubles, but it cheers all who hears it. Why not let a girl whistle? It will lighten her cares and like her whistling brother, she, too, can cheer others.

Should a girl whistle? I, for one, say she should. On only one condition Yes. I think that a girl should whis- need she be deprived of this joy, and that is, when she cannot whistle. The majority of our girls can whistle, or can learn to whistle.

It is morning. Across the fields we can see a farmer's boy just starting to the field. His fine team of horses are ready for a day's hard work. The boy himself is very happy, and as carefree as the birds around him. But, hark! what is it which comes to us across the fields? It is a clear ringing whistle, the boy's morning song. We know his thoughts are not of an unhappy kind, for he loves his work.

In the twilight of the evening the boy is returning from his work, tired but happy. Still as we hear his whistle loud, then gradually fainter as he nears the farmyard.

, In the evening twilight, we see him again. He still whistles, but this time he is taking the cows home. Watch him as he nears the cattle. See them look up. They know the happy thoughts and song of the farmer's boy, and they pause to listen, because they, love it.

At the house, we see the boy's sister. She, too, is happy. Her thoughts are happy ones, too; how would we know if she did not whistle? Her day's work is done and she whistles.

It has been a long day for both, the boy and his sister, and they are tired, but happy. Why are they happy? Because they have been allowed to whistle.

Picture this world without a whistling girl. The picture you will see should be enough proof to show you that a girl should whistle.

THE WHISTLING WINNERS.

THIS whistling contest made me whistle a bit more this week because I had brought to my attention all of the favorable things regarding whistling, and not many of the unfavorable ones. I am glad it turned out that way for my thoughts are that whistling, like everything else, can be refined or ungentlemanly or unladylike When whistling is music, it should not be interfered with, for we can not have too much music in our lives.

Fountain Pens. Roscoe Bloss, M. C., Dunningville,

Mich. Donna Scribner, M. C., R. 1, Ban-Dictionaries.

Blanche Cook, R. 3, Elsie, Mich. Gerald S. Richards, Lake Odessa,

Marjorie Cline, Union City, Mich. Knives.
Bernard Alfredson, M. C., Whitehall,

Maxine McGowan, Climax, Mich. Hollis Parks, M. C., Perry, Mich. Evelyn Schlader, R. 2, Freeland, ich.

Ruth Burkett, M. C., Dowagiac, Mich.

ARE CROSS WORD PUZZLES BENE-FICIAL?

HERE is no doubt but what cross word puzzles are the rage. But some have doubted whether they are beneficial or not. In fact, one letter on the preceding page expresses some thoughts against them, and I asked for some other opinions on the subject.

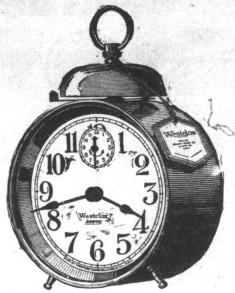
week a contest on this subject would not be a bad thing, it seems to me. So, send in your opinions and try for a prize. Even if you do not get a prize you will probably get a Merry

Do not make your papers longer than 250 words. Write your name and address in the upper left hand corner or your paper, and if you are an M. C. put M. C. after your name, as every loyal Merry Circler should do.

This contest closes March 13, so be sure to send your answer to Uncle Frank, Michigan Farmer, Detroit, LAKEVIEW POULTRY FARM, Michigan, in plenty of time.

LAKEVIEW POULTRY FARM, R. R. 8, Box 6, Holland, Mich.

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Ottawa Hatchery & Poultry Farm, R. 10, HOLLAND, MICH.



JUDGE FOR YOURSELF

The winning pen at the International contest averaged 262. All the Leghorns averaged 176. The entire contest average was 163. In the Barrol Rock division the Lakeview pen was second, though one hen died. The nine averaged 194. Read Our Catalog.



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Ohio Accredited. Every bird passed by inspector trained and authorized by the Poultry Department Ohio State Unitersity. Prize winners at many shows from National down. Developed for high egg production for many years. Free range flocks in best of health. Free range flocks in the prediction of the prediction of the property of the production of the prod

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Silver Lake Egg Farm, Box M. Silver Lake, Ind.

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English Producer White Leghorns Larger size 5-lb. hens. The kind for farmers and egg producers. Strong husky chicks our specialty, \$15 per 100. Eggs \$8.00. Free Catalog. Mapleside Leghorn Farm, Box O, Tremont, III.



BARRED PLYMOUTH ROCKS and WHITE LEGHORNS We are now booking orders. Prizes are \$15 and \$18 per 100. Order direct from this ad. EAGLE LAKE HATCHERY, Paw Paw, Mich.

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See a De Laval Superiority Evident

Try Let it prove how much cream it will save

Compare an improved De Laval side-byside with any other. See it yourself; and when you do you will not need an expert to tell you which one is by far the better designed and made, sure to last longer, do better work, and prove the better investment.

And if merely seeing does not convince you, go a step further and try a De Laval side-by-side with any other. Not one buyer in a hundred ever does that and fails to choose the De Laval. Your De Laval Agent will gladly arrange a trial for you.

Then after you have seen and tried the improved De Laval, after you have convinced yourself that it is better than any other, trade in your old separator as partial payment on the new machine, which you can buy on such easy terms that it will pay for itself out of the savings it makes.

If you do not know the name of your local De Laval Agent, write the nearest De Laval office below.

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"Jamesway" Helps Make Farming Pay



COW TESTING INCREASES WORTH.

HE spectators at the Calvin Benedict auction sale held on the fourth of February in Clayton township, Genesee county, were given a good demonstration of one great benefit to be derived from cow testing work.

There were twelve head of grade Holsteins in this herd. Nine head had been tested in the Genesee No. 3 Cow Testing Association for only nine The other three were not months. tested.

The nine head that had been tested brought the big average selling price of \$168. The highest price paid was

Jens Wong owned the high two-yeargrade Guernsey with 7,353 pounds of milk and 355.5 pounds of fat.

Jennings worked out the following interesting table on cost of production of 100 pounds of milk and a pound of fat by high and low producing

Feed Cost. 100 Lbs. Lbs. Number Herds. Milk, 4 over 300 lbs. fat. . . . 61c 200 to 300 lbs fat. . . . 67c under 300 lbs. fat 81c Fat

Fall freshening cows in the association averaged thirty pounds more fat during the year than spring freshening cows, making the average price of butter-fat run five cents more per pound in favor of fall cows.

Thirty-four poor cows were culled



This is the Season when Many Calves Are Going to Market. As New Have Given Little Study on How to Realize Most From Them.

for a six-year-old. She went under the out during the year. Three silos were hammer at \$243. Her daughter sold for the next highest price, going at

The three cows that had not been tested brought a far different average. These three cows sold at just \$78 each. To look at, these cows were just as good as the other nine. Their breeding was the same. They had no records back of them; therefore, they brought an average of \$90 less than the nine cows in the herd that were tested.

This would seemingly prove: that cow testing raises the worth of the cows sold ;that records are appreciated; and that bidders are willing to pay the price for cows that have been proven good producers.

The mere say-so of the one who does the milking no longer stands as good evidence of a cow's worth in the auction ring. Bidders now want black and white records read from the books of a cow testing association.—S. Morrish.

ALPENA-LEER DAIRYMEN LEARN FROM COWS.

THE Alpena-Leer Cow Testing Association finished the first year of testing. Carl Jennings, tester, found that fourteen of the twenty-eight herds averaged more than 300 pounds of butter-fat per cow. The high herd was owned by Richard Randall, five grade Guernseys, producing an average of 8,027 pounds of milk and 366.9 pounds of fat. The high mature cow was from the herd of Norman Hobbs, a grade Holstein producing 14,238 pounds of milk and 500.1 pounds of fat. The high four-year-old was a pure-bred Guernsey from the Fletcher Paper Company herd producing 11,474 pounds of milk and 514.9 pounds of fat. This cow also ranked high individual in the association. The high three-year-old was a pure-bred Guernsey from the same herd with the production of 8,135 pounds of milk and 429.3 pounds of fat.

constructed. Legumes seeded during the year included seventy five acres of alfalfa on twenty-eight farms, forty acres of sweet clover and ten acres of soy-beans.

THE INFLUENCE OF A GOOD BULL.

N the midst of the Alpena-Leer Cow Testing Association is the Leer Guernsey Bull Association. This bull association has been operating for a long number of years. Tester Jennings tabulated the records of the daughters sired by the pure-bred Guernsey bull, Golden Berkshire, No. 32039. It will be noted that the dams averaged one more month in milk and fat and exceeded the daughters by only eleven pounds of fat, even though all of the daughters are two and three years old. The comparison follows:

Da Month	ms.	
Age. in Mil	k. Milk.	Fat.
Mature 10	6,974	314.8
Mature 11	6,738	322.4
Mature 11	7,776	368.1
Mature 6	4,560	207.8
Mature 12	8,664	419.7
Total 50	34,712	1.632.8
Average 10	6.942	326.6
Daug Monti	hters.	020.0
Age. in Mil	k. Milk.	Fat.
Three 5	4.564	217.9
Three 10	7.036	324.7
Two 11	6,797	345.6
Two 9		316.2
Three 10	7,806	353.9
Total 45	33,005	1,558.3
Average 9	6,601	311.7
"Fewer Bulls and worthy slogan for		

LAMPMAN CATTLE COME TO MICHIGAN.

M R. DAVID B. MILLER, proprietor of the Miller Jersey Farm at Ear ton Rapids, Michigan, recently selected twenty-two head of cattle from the herd of L. B. Lampman, at Coxackie, New York, after an extensive trip in

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which he visited many herds in the has been due to heavy feeding or feed middle west and the south.

Mr. Miller has been looking around for some time to purchase a carload of Jerseys that combined good breeding and individuality, and finally found an opportunity to make a selection from a herd that for many years has been well known to Jersey breeders of the east. The animals he selected were nearly all young cows which were heavy in calf, and all representative of the best lines of breeding available.

Mr. Miller was fortunate in running across such an opportunity, as he will have an excellent lot of matrons from which to breed, and, in addition to this, he made his purchase from a herd that has never had a reacting animal.

The Lampman herd, which at one time, consisted of over one hundred head, and which has been in existence for over forty years, is now nearly dispersed, as it is the intention of the present owner to discontinue farming and dispose of the live stock as well as the real estate. For many years it has been one of the show places of the Hudson Valley and is quite an unusual place in the fact that of the 1,000 acres there are practically 800 acres that are, or have been, in cultivation.

VOTE TO CLEAN UP HERDS.

THE Houghton county board of supervisors has received and taken under advisement the contract with the State Department of Agriculture for the joint anti-bovine tuberculosis campaign that will be put on in that county later on. The contract calls for the employment of a full-time state veterinary inspector, whose salary will run at the rate of \$2,500 per annum, while the county will bear his expenses, including the cost of transportation. The county will furnish identification tags for inspected cattle. The state furnishes chemicals, blanks, clerical help, etc. The state and federal governments jointly pay the indemnities.

When the finance committee of the itself, approve the contract, Houghton county will go on the waiting-list for the tuberculosis campaign. It is not expected that Houghton county will be reached this year.-L. A. Chase.

EXCESSIVE SEXUAL DESIRE IN BREEDING COWS.

THIS is a condition in which the animal has an unusually strong sexual desire and though bred at frequent intervals, no permanent results are noticed. Such cows do not get with calf.

During the first period of this condition it is possible in many cases that very little change is noticed in the condition of the animal, but if the condition does not improve very gradually lose flesh and become weak and nervous; they become greatly emaciated in the course of time. It is quite frequently that females that are so affected are know as "bullers" for they will take the bull at any time. If they do happen to get with calf, they very often have an abortion in a short time.

This condition is brought on by a congestion of the organs of reproduction, due to excessive feeding of coning 3,419,040 bushels—an average of spread from other diseased organs. It is often found in animals that are in very high condition and most often in young heifers. It may be caused by a tubercular condition of the uterus or the ovaries; it fitting for show or sale purposes.

valuable one, it is often best to market them for food purposes as soon as they can be turned to advantage. If they are valuable for breeding purposes they should be placed by themselves where they can have plenty of exercise; they should receive plenty of forage and if in the summer time should be turned to grass. If this condition

that has been too rich and concentrated, this should be changed gradually to a different ration. It is best in cases of this kind to secure the best veterinarian that you can find and then work under his direction. They should be kept away from all excitement which is caused by being with other animals .- G. H. C.

LEAGUE CANCELLATIONS FEW.

A CCORDING to recent announcements from the New York office of the Dairymen's League Cooperative Association, Inc., the total number of cancellation notices received from pooling dairymen up to and including February 21, the middle of the withdrawal period, was 626. This number is quite a bit less than the number of cancellations reported at the same time in the withdrawal period a year

HIGH QUALITY AYRSHIRES GO TO GRATIOT COUNTY.

THERE was delivered at Ithaca, Michigan, late in January, one of the best lots of Ayrshires ever assembled in this country as a foundation herd. Selected for the farm of James E. Davidson, Bay City ship builder, by A. Minty, an experienced stockman from the native home of the breed, they combine to an unusual degree, choice, individuality and the ability to produce, and give Mr. Davidson breeding material such as many breeders spend a lifetime to secure.

Peter McClellan, a Canadian Ayrshire man who has proved himself capable of securing the best of results with the breed, is in charge of the herd. It is housed in thoroughly modern stables equipped for the comfort of the cattle and for securing the most favorable returns from them. This transaction establishes in Michigan one of the choicest Ayrshire herds in the country and is sufficiently out--standing in average quality to give it board of supervisors, and the board high rating among the leaders in the central west.

The herd of forty-three animals, including eight calves, was secured in two consignments, a draft of sixteen head from the show herd of Adam Seitz & Sons, Waukesha, Wisconsin, and selections of twenty-seven head from three Canadian farms. Mr. Minty set out to buy the best which could be found, requiring type first and with it plentiful evidence of milkiness. He saw the Seitz exhibits at central western fairs and made his chief Canadian purchases at the Royal at Toronto.

GOOD YIELDS IN CLOVERLAND.

THE department of agriculture has published its annual summary of crop yields for Michigan during the year 1924. This summary shows that last year the Upper Peninsula produced 99,655 bushels of winter wheat on 4,500 acres, this being a yield per acre of 22.1 bushels. Corn was produced on 11,100 acres, amounting in all to 134,750 bushels—an average of 12.1 bushels per acre, which is far below the ten-year average of 27.7. Oats were produced on 87,000 acres, yieldcentrated feeds, or from an inflamma- 39.3 bushels, which is higher than the ten-year average of 32.2. Rye was produced on 7,000 acres, amounting to 153,600 bushels—the per acre average being 21.9, which is well above the tenyear average of 18.3 bushels. Potatoes were produced on 19,000 acres, amountmay also be caused from excessive ing to 2,892,350 bushels—a per acre average of 152, while the ten-year aver-If the animal is not an unusually age was 122 bushels. Of beans there were only 200 acres, raising mostly in Dickinson, Delta and Marquette coun-The total yield of beans was 1,890 bushels, being 9.4 bushels per acre. The acreage of tame hay was 272,000, which produced 389,565 tons, making the yield per acre 1.43 tons, while the ten-year average was 1.34



Order your harness early and be ready for the rush of spring work. Breakdowns with old harness mean costly delays. I am offering a pair of handsome Fancy \$3.00 Line Spreaders Free as a special award for early orders. harness making. Easily adjustable to fit any horse. Write today.

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Balance easy payments, or cash after trial if you wish,
otherwise return it to me at my expense. Write today for free book,
prices, easy payments and thirty days' trial offer, and arrange
to get a set of the Fancy Spreaders without cost.

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Send me, free of charge, Walsh Harness Book, free trial offer, liberal terms on Walsh Harness, Fancy Spreaders to be given for early orders. Mail Coupon Today for P. O. FREE BOOK

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Ask your feed dealer or write us for the little folder, "How To Feed Unicorn." Tells you how to feed all kinds of cows, with various forms of roughage and your own

RACTICAL people judge a feed just as they judge anything else they buy.

COSTS LESS—LASTS LONGER

The Walsh Harness costs less because it saves many a dollar in

repairs. No patching, no mending, because no rings to wear straps in two, no buckles to weaken and tear straps. Greatest advance in harness making. Easily adjustable to fit any horse. Write today.

They judge it by results. There is no other way.

And all the theories in the world cannot change this fact.

It is easy to compare the results you are getting from your present grain ration with the results you get from Unicorn:

Take the number of pounds of milk you get from your entire milking herd,

Divide this number by the number of pounds of grain you feed today.

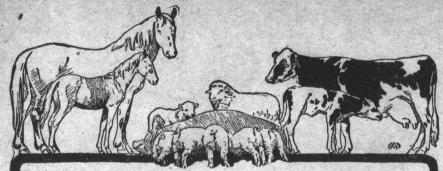
This gives you the number of pounds of milk you are now getting from each pound of grain.

Go to your feed store and get a month's supply of Unicorn. Feed it to your herd, taking six days to make the

In ten days or two weeks, weigh milk and feed again. You'll be pleased to find that you are getting the same milk-flow—but with much less feed.

Unicorn gets results-cuts your grain cost of producing milk.

CHAPIN & CO., 327 S. La Salle St. CHICAGO, ILL.



Dr. Hess Stock Tonic The Springtime Conditioner

SPRINGTIME is the time that farm stock are out of fix. A long winter diet on dry feed-woody timothy hay, corn fodder and other roughage—tells in ill condition; blood out of order and worm pestilence.

Give their systems a spring house-cleaning with a course of Dr. Hess Stock Tonic.

It will put your cows in trim for summer milking. Excellent for cows at calving. Feed it before freshing. It will relieve your brood sows of constipation, all hogs of worms. It will put your young stock, calves and shoats, in fine condition for summer gains.

Fit your team for spring work with a course of Dr. Hess Stock Tonic. It gives them strength and endurance. You can feel it on the lines.

Excellent for mares in foal, and ewes at lambing time.

25-lb. pail, \$2.25; 100-lb. drum, \$8.00 (Except in the far West, South and Canada)

Honest Goods-Honest Price. Why Pay More?

REMEMBER—When you buy any Dr. Hess product, our responsibility does not end until you are satisfied that your investment is a profitable one. Otherwise, return the empty container to your dealer and get your money back.

DR. HESS & CLARK, Inc., Ashland, Ohio

Dr. Hess Dip and Disinfectant For Sheep Ticks - for Hog Lice - for Health

Michigan Jersey Breeders Attention. Complete Dispersal 37—HEAD OF REGISTERED AND PURE BRED JERSEYS—37
PARMA JERSEY FARM MARCH 9, 1925 PARMA, MICH.

the leading herd in Jackson county cow testing associations for three years leading with 50% of the high 10 cows for 3 yrs. AN OPPORTUNITY TO GET A CAR LOAD OF THE BEST C. T. A. JERSEYS in MICH., COMPRISING THE 16 GRANDDAUGHTERS OF OXFORD DAISY'S FLYING FOX BY HIS SON OUT OF SEGNAL'S VARIELLA 252717, Gold Medal COW, 923.4 lbs. butter from 13,736 lbs. milk, and 11 daughters of SOPHIE'S ADORA'S MERMAN, the herd sire, ONE OF THE BEST BRED BUTTER BULLS IN THE STATE OF MICH. The average of his 6 nearest dams 750.5 lbs. butter from 11,905 lbs. milk. Write for catalog and learn more about this choice herd, as we have proof that they pay at the pail.

L.A. SEDGWICK. Owner. Parma. Mich.

J. F. RUPPERT, Auctioneer, Perry, Mich. L. A. SEDGWICK, Owner, Parma, Mich. J. F. RUPPERT, Auctionee Write M. E. Bloss, Sales Manager, Vernon, Mich. for Catalog.

BREEDERS' DIRECTORY

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Buy it by

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Whatsoever A Man Soweth, That Shall He Also Reap.

Get the best breeding stock and reap the benefits of quality.

WILDWOOD FARMS ORION, MICHIGAN
W. E.SCRIPPS, Prop. SIDNEY SMITH, Supt.

Registered Aberdeen-Angus, six bulls from eight to sixteen months, large and growthy. Price reasonable. F. J. WILBER, Clio, Mich.

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LONE PINE RANGER our new Herd SIRE has a
Dam with an A. R. O. record 936 fat. When in the
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Camden, Mich.; J. W. WILLIAMS, No. Adams, Mich.

Reg. Guernseys For Sale Springing cows, bred helfers, Bull calves. Williamston, Wilch.

For Sale Reg. Guernsey Cows, Bulls and Bull Calves. A. R. Record May Rose Breeding. JOHN EBELS, R. 2, Holland, Mich.

Wallinwood Guernseys Young bulls from A. R. cows for sale, F. W. WALLIN, Jenison, Mich.

FOR SALE Reg. Guernsey Bull. Sil-4 yrs. old in May. \$100. B. T. BATES, R. I. New Haven, Mich.

PRODUCTION PRODUCTION

The Travese City State Hospital herd of 200 head is made up principally of daughters of these sires: ADMIRAL WALKER COLANTHA, sire of 9 from 30 to 38.5 lbs. in 7 days, and 8 from from 30 to 38.5 lbs. in 7 days, and 8 from 908 to 1.254 lbs. butter in 365 days.

KING SEGIS D.K.P. NETHERLAND, sire of 7 from 30 to 33 lbs., and 5 from 932 KING SEGIS D.K.P. NETHERLAND, sire of 7 from 30 to 33 lbs., and 5 from 932 to 1.160 in a year.

TRAVERSE PRINCE INKA LAD, sire of 5 30-lb. daughters, and 3 from 930 to 1.080 lbs. in a year. Only 10 of his 84 listed daughters have been tested at 5 years or over.

ECHO SYLVIA KING MODEL, sire of 46 with records as 2 and 3-yr.-olds, including a 32-lb. Jr. 3-yr.-old.

Sires now in service are 2 grandsons of May Echo Sylvia and a son of the famous cow "Fobes 6th."

To insure production in your future herd use a Traverse bred bull. We can supply you.

BUREAU OF ANIMAL INDUSTRY, Dept. C, Lansing, Michigan

HEA

of Registered and grade Holsteins, Brown Swiss and Guernseys will be sold March 10th at the Village Farms stables at Grass Lake by the Grass Lake Cow Testing Association. All animals owned by members of this association, and records will be given at the sale. Address Box 19.

Grass Lake, Michigan



My Ton Litter

How I Produced It By Ernest Barnard

ton litter contest was a purebred Poland China. During the winter she received no special care but ran around the barnyard with ten or twelve other sows. Besides eating corn out of the bundle, while the cattle and sheep were eating, the bunch of sows were given a bushel of whole oats once a day. They slept around the straw stack and in a shed under

About two weeks before farrowing this sow was put by herself and fed a few whole oats and given a light feed of ground wheat and oats, mixed up with a little milk and water.

This was the first litter from the sow and she was a little under thirteen months old when she farrowed the thirteen pigs. She had more than I cared to have her raise at her age so I disposed of two of them immediately. Both the dam and grand-dam of this sow were producers of large litters.

The farrowing pen was an A-shaped coop, 7x9 feet. There was a door at



At 180 Days This Litter Weighed 2,686 Pounds.

one end and one at the side. There was also a small window at each end and a pig-rail around the two sides and one end of the pen. This pen was well cleaned and was bedded with wheat straw.

. I was with the sow while she farrowed and looked after her frequently for eight or ten hours afterward. For about twenty-four hours she was given nothing but water. After that she was given a few whole oats. From then on, until the pigs were two weeks old, the sow was fed whole oats once a day, and twice a day she was given ground oats and wheat (about halfand-half by weight), mixed up with a little skim-milk and water. She had about an acre of clover pasture to run in. After the pigs were about two weeks old the sow was not given the whole oats, but the amount of ground oats and wheat was gradually increased. She had no minerals except a little salt and sulphur and all the soft coal slack that she cared to eat.

The pigs ran with the sow until they weaned themselves when they were about ten or twelve weeks old. When they were about six weeks old they commenced to eat along with the sow. When they grew older we fenced off a little feeding pen and continued to feed them the same rations until they were about three months old. By that time my wheat was gone, and instead of buying wheat to grind with the oats, I bought middlings. From that time on they were usually fed, three times a day, a slop of ground oats and middlings with occasionally a little bran mixed in.

The skim-milk that was used orditill the next. I don't know as it was

HE sow that I entered in the any better for standing a few hours; with me it was simply a matter of convenience.

After the pigs were about four months old they had access to whole oats at all times.

When I entered the contest I thought I could make a 2,500-pound litter of these pigs without spoiling them in any way for breeding purposes. My aim was not to see how heavy I could make them, but how good, from a breeder's standpoint I could make them at 180 days. At no time were they fed corn or anything to make them fat, and when the eleven pigs were weighed in on the 180th day at 2,686 pounds they were just in good shape to be put through a sale ring and go out as breeders.

As for any changes in the plan I followed this year, I might say that had corn not been so high priced I should have given them, once a day, either what shelled corn or corn on the ear that they would eat up clean in twenty minutes. I should have fed the corn in connection with the other feed and preferably at night. That amount of corn would not have been enough to fatten them, but in my opinion, it would have made a little better balanced ration.

NEW HIGH IN HOG MARKET.

H OG prices advanced to a new high point for the winter with the Chicago top at \$1:75. The \$12 hog is not far away. The average price is running about \$4 higher than a year ago. The supply in the eastern states seems to be running out and eastern shipping orders have taken a goodsized fraction of the arrivals at Chicago and St. Louis. Furthermore, arrivals are considerably lighter than they were at this time a year ago. Muddy roads have interfered with country loading but the remaining supply in the country is working into stronger hands.

Domestic demand for hog products still maintains remarkable breadth. The accumulation of hog meats in storage since the beginning of the winter packing season on November 1 has not been as heavy as might have been expected, in view of the enormous rate of slaughter, the falling off in export demand, and the influence of higher prices on domestic consumption. Total stocks of hog meats on February 1 amounted to 880,000,000 pounds compared with 801,000,000 pounds on the same date a year ago and a five-year average of 684,000,000 pounds.

FINANCING RECORD OF MERIT WORK FOR SHEEP.

Na recent issue was explained the ers of the state for recording sheep of merit in the production of wool. One matter was not included in that story. It pertains to the payment of expenses. It was voted by those joining in the scheme that owners should pay actual expenses of the representative of the M. A. C. in attending to the shearing of their sheep. This was done with the understanding that the extension department of the college would stand such expenses for the first two years, or until the work had become firmly established. Thereafter, owners will foot the expenses incurred by the colnarily stood from one milking time lege men in supervising the shearing. as stated above.

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the og is e is Qualtiy Holsteins of age. Good Individuals and Well Bred, at from \$50 to \$75, according to age.

HOLSTEIN or GUERNSEY dairy calves, 7 weeks old, ment. Edgewood Dairy Farms, Whitewater, Wis.

Financial King Jerseys able age are all sold, but we have a few bull calves of excellent breeding, sired by our great herd sire, Financial King Sensation. Our prices are reasonable, COLDWATER JERSEY FARM, Coldwater, Mich.

JERSEY BULL Dropped Mar. 2, 1924. Sire, ble grandson of Fauvic's Prince. His dam, Senator's Surprise, R. of M. record 485 lbs. butter at 2 yrs. 3 mo. of age. She is a doublegranddaughter of Oxford Daisy's Flying Fox. Jesse A. Kline, Gladwin, Mich.

Jerseys For Sale

Bulls ready for service, also a few females. All from R. of M. dams. Accredited herd. Smith & Parker, R. D. No. 4, Howell, Mich.

BUTTER BRED JERSEY BULLS
FOR SALE
Silver Creek, Allegan County, Michigan

15 Cows. 4 bulls from R. of M. Cows. Chance to select from herd of 70. Some fresh, others bred for fall freshening. Colon C. Lillie, Coopersville, Mich.

MILKING SHORTHORNS Good individuals. Best milking inheritance. Both sex. All ages. GEO. T. FULLER, R. 10, Battle Creek, Mich.

ELM LAWN SHORTHORNS One bull calf 8 months; HARRY CROSBY, Grand Blanc, Mich.

Shorthorns Best of quality and breeding. Bulls, cows and heifers for sale. BIDWELL STOCK FARM. Box D, Tecumsch, Mich.

Shorthorns For Sale sexes. Barr & Curtiss, South Bay City, Mich.

Milking Shorthorn Bulls Reds and Roans, Write me your wants.

Polled Shorthorns both sexes. Federal accuracy and Control of the sexes of the sexe

Red Polled Cattle Bulls, cows and heifers.
DON P. CARR, Homer, Mich. Yorkshire Swine.

OUROC JERSEY SWINE for sale. Type and quality our aim. Write your aim, Write your

Duroc Sows and Gilts Choice sows and gilts bred to Michigan's Grand Champion Boar for March and April farrow. Also a few swine boars. LAKEFIELD FARM, Clarkston, Mich.

BRED SOWS ALL SOLD offering fall pigs, shipped. C. O. D. ALBERT DORR, Clinton, Mich.

O. I. C's Fall pigs, Sired by "Giant Boy" and "Jumbo's Bell Boy." Brown Swiss Bulls. Mile H. Peterson, R. 2, Ionia, Mich.

Francisco Farm Poland Chinas Now offering some wonderful bred gilts, granddaughters of National Grand Champion—at prices you can pay. P. P. POPE, Mt. Pleasant, Mich.

Spotted Poland China SALE 40 head, March 19th, These glits are by Grand Champion boar and mated to Leopard Improver, Jr. Four fall boars. OSCAR VOELKER, Pigeon, Mich.

Big Type Poland Chinas
Choice gilts bred for Mar. & April farrow, for sale.
WESLEY HILE, Ionia, Mich.

Fall Pigs either sex, by the great Boar, The Wolverine. Priced reasonable. Best Livingston, Parma, Mich.

For Sale Large Type Poland Chinas either sex. Also Brown Swiss Bulls.

Hampshires For Sale nice spring and fall Boars Choice bred gilts, 12th year 10HN W. SNYDER, R. 4, St. Johns, Mich.

SHEEP

FOR SALE

20 Registered Black Top Delaine ewes; Ten ewe lambs, and ten ewes from one to five years old. Ewes bred to prize winning rams. \$500 takes the bunch. W. C. HENDEE & SON, Pinckney, Mich.

SHEEP FOR SALE 50 Registered Hamp-Prize Winning Rams. to Lamb in April. A. M. WELCH & SON, Ionia, Mich.

Breeding Ewes
B. FURNISS, Nashville, Mich.

for sale, extra good young Delaines. V.

HORSES

WARNING STALLION PURCHASERS

Be sure that the stallion you are buying has a clean Michigan State Enrollment. Purchase subject to approval for soundness and registry papers, by the Department of Agriculture, Lansing, Michigan. Michigan Horse Breeders' Association,

R. S. Hudson, Secretary, East Lansing, Mich.

FOR SALE one Registered Percheron Stallon, four wall broke and news years old. Weight 1,800 lbs., well broke and nice to handle. Price right. E. A. ROHLFS, Akron, Mich. Box 6, R. F. D. No. 3.

For Sale 1 Percheron Stallion, 3 years old, of The Ton Type. E. R. Van

CATTLE MARKETS SHOW IM-PROVEMENT.

D ECIDED improvement in the cat others. tle trade has been reported in the last few days. Receipts have fallen begin to run lighter than a year ago,

beef cow and heifer market. The present week may bring a setback but the chances are that the main trend is upward at last. The lenten period is mostly a "lack of something," and so just starting and light receipts will be far as I thave been able to learn they necessary if prices are to make per- are unknown where hogs are well carmanent gains. The calf market is ed for and supplied with a completely feeling the first effect of the early balanced ration which must include a spring run of veals.

In spite of the influence of high prices for corn, and its poor feeding quality, receipts of prime and choice steers are larger than usual at this season of the year. In the week ending February 14, 2,851 such steers arrived at Chicago, compared with 584 a year ago, 596 two years ago, and seventy-three three years ago. During the same week, only 737 common beef steers were reported sold for slaughter compared with 4,800 last year, 5,027 two years ago, and 6,001 three years ago. Presumably, these figures are representative of conditions at other markets, and explain why prices on good cattle continue to sell about \$1 lower than at this time a year ago.

been deprived of fresh forage for some time and the ground has been frozen solid to prevent their rooting, and perhaps their ration has been confined to grains for an extended period, the hog's system seems to demand something more.

I think there is no time throughout the year when minerals, artificially supplied, are as essential to the hog's health and well being as the late winter months. We aim to keep some sort of a mineral before our hogs at all times, sometimes it is nothing but a block of salt. But often, and especially in winter, we prepare a mixture of minerals, the best we can get together and place where they can have free access to them.

Ashes from hardwood are especially good. They furnish both lime and tassium and aid digestion. Salt and sulphur are good additions, and, as a carrier of phosphate, I think, there is nothing equal to raw phosphate rock or floats, as it is commonly called. It is not often easy to obtain in the small quantities needed for hogs, and so we may need to use the treated rock or acid phosphate as a substitute. The valuable ingredient of soft coal, which we have often heard recommended for hogs is only ordinary sulphur.

There are many combinations of minerals that may be fed to hogs and in addition, there are many prepared mineral mixtures on the market. I believe we are safe in saying they are all good, although there is little doubt but that some are much better than

There is considerable investigation going on at the present time to learn off sharply, with signs that they may the importance of minerals in the hogs ration and also the best form in which in line with the reported decrease in to supply them. We know comparanumbers on feed. Dressed beef trade tively little about the subject as yet, also improved decidedly, indicating except that it is important, and in all that the prolonged period of conges-tion may be over.

Indicating probability, when it becomes a com-mon practice to feed hogs the proper Prices have advanced twenty-five to minerals, such troubles as "hairless fifty cents on practically all grades of pigs," "rickets," "breaking down," steers, with some appreciation in the "abortion," or "going down behind," will be troubles of the past.

What little is known of the cause of these common troubles in hogs is variety of minerals.-P. P. Pope.

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Veterinary. BHERLENGHARMANNA HARIA BHARKA CHARLA BHARLA BHAR

CONDUCTED BY DR. W. C. FAIR

Advice through this column is given free to our subscribers. Letters should state fully the history and symptoms of each case and give, name and address of the writer. Initialonly are published. When a reply by mail is requested the service becomes private practice and \$1 must be enclosed.

Garget .- My cow gives stringy milk but she does not appear to be sick. Her milk has a bad odor. L. T. S., Portland, Mich. Apply camphorated oil to udder daily, give her a half ounce of fluid extract of phytolacca in feed or water two or three times a day.

Common and medium grades, on the other hand, are in much the same notch as they were last year at this time.

Demand for stocker and feeder cattle is improving slightly. Some buyers are taking out fleshy steers in antici-

tle is improving slightly. Some buyers are taking out fleshy steers in anticipation of scarcity and higher prices for finished cattle toward spring. Others who have an abundance of rough feed are buying for summer grazing, in an effort to avoid the spring rush. Prices on thin cattle are at the highest point since last October, and will probably continue their upward trend.

THIS is the time of year when hogs need minerals. Of course, they need them at all times, but when they have access to good leguminous forage or a chance to root freely in the ground, they will usually get what is absolutely necessary. After they have been deprived of fresh forage for some in feed or in drinking water three times a day.

Sterility.—Have two young' cows which came fresh last fall; since then neither of them have been in heat.

A. V. K., Holland, Mich.—Both cows will perhaps come in neat as soon as warm weather sets in. Give each cow 40 drops of fluid extract of nux vomica, in ground feed two or three times a day.

Unhealthy Skin.—We have there of them have been in heat.

A. V. K., Holland, Mich.—Both cows will perhaps come in heat as soon as warm weather sets in. Give each cow 40 drops of fluid extract of nux vomica, in ground feed two or three times a day.

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A. V. K., Holland, Mich.—Both cows will perhaps come in heat as soon as warm weather sets in. Give each cow 40 drops of fluid extract of nux vomica, in ground feed two or three times a day.

Unhealthy Skin.—We have thirteen cows which are keep tin a basement beaution of the skin near root of the tail. Have searched for lice, found none. I have applied lice powder but it gave no relief. N. F., Shepherd, Mich.—Groom your cattle, also apply one part Creolin mixed in 50 parts of water, to diseased parts twice a week. If she has few lice this solution will destroy them. Spread sulphur on the floor, and fresh lime wash to stalls and walls.

Michigan Horse Breeders' Association, Farmers' Week, February, 1926. Fit your horses then List your horses with

R. S. HUDSON, Sec'y-Treas. East Lansing, Michigan.

Freight charges prepaid in full on all orders of roofing from this advertisement at prices shown to Illinois, Indiana, Ohio, Wisconsin, Michigan and lowa. If your state is not included, proportionate differences in freight will be allowed or we will quote you upon receipt of your request.

Galvanized, Corrugated Roofing and Siding, reclaimed stock in excellent condition, squarely trimmed and painted red.

squarely trimmed and painted red.

No. HA-300 — Galvanized corrugated sheets (reclaimed) per sq. 100 sq. ft....

PAINTED ROOFING AND SIDING No. HA-200—Standard weight overhauled painted 2½ inch. Corrugated sheets—suitable for siding—per sq. or 100 sq. ft.....

No. HA-300—Medium weight overhauled painted 2½ inch. Corrugated sheet—for roofing or better siding—per sq. 100 sq. ft.....

\$2.94 RED AND GRAY SLATE COATED BOLL ROOFING No. HA-400—New Slate Coated Roofing in rolls of 108 sq. ft. Complete with nalls and \$2.04 cement. Wt. 85 lbs. Red or gray. Per roll \$2.04 No. HA-500—New Heavy Smooth and Surfaced Roofing—sound and durable. Easily taken care of Adapted to every roofing need. Complete with nalls and cement. Per roll \$1.62

HARRIS BROTHERS CO.
35th and Iron Streets, CHICAGO

MAIL THIS COUPON NOW!

HARRIS BROTHERS CO.. Chicago, III.
Dopt. HA-42
Fill out coupon below and we will send you our
estimate of cost for your building.
How Much Roofing
Will You Need?

What Kind Do You Prefer?.... NAME ADDRESS

Dick , it was terribly embarrassing

"There I was with a car full of friends and the motor knocking along without a bit of power. Dick, can't you do something about it?"
Yes! He can buy MonaMotor Oil and

give his motor a chance to stage a come-back.

Perfect lubrication is one of the secrets of a reliable and powerful motor. Monarch Manufacturing Co. Council Bluffs, Iowa Toledo, Ohio

DIPSERSA LSALE—Registered Holstein Cattle TUESDAY, MARCH 10, 1925.

At the farm, 8 miles southeast of Fowlerville, or 8 miles southwest of Howell, on good road. Having leased At the farm, 8 miles southeast of Fowlerville, or 8 miles southwest of Howell, on good road. Having leased my farm I will sell my entire herd of Registered Cattle, consisting of 26 head, all under 5 yrs. old, except two. 12 head by a 30-lb, bull, 10 head by a bull whose dam has 1,012 lbs. butter and over 24,000 lbs, milk in one year. 3 due soon. Cows have C. T. A. Records. Farm Sale at 10:00 A. M. HENRY J. GEHRINGER, Fowlerville, Mich.

Ardenteenie Stock Farm Dispersal MARCH 12, 1925 — LANSING, MICH.

36 Registered Holsteins

Under State and Federal Supervision

This includes Michigan's Grand Champion bull of 1922, Capital Cream Jupiter Hengerveld, and his daughter, undefeated junior heifer calf in Mich., 1924, together with 14 of her sisters 30,000-lk, cow, Martha Vindetta De Kol 3rd, the third highest milk producing cow in the state. 10 of these heifers are bred for fall freshening to a son of College Butter Boy, a bull Write for catalog.

A. R. BLACK & SONS, Lansing, Mich.



GRAIN QUOTATIONS

Tuesday, March 3.

Detroit.—No. 1 red \$2.00; No. 2 red \$1.99; No. 2 white \$1.99; No. 2 mixed

Chicago.—July \$1.73 % @1.74; September \$1.56 @1.56 4; May \$1.99 4 @ \$1.99 3.

Toledo.—Wheat \$1.98½ @ \$1.99½.

Corn.

Detroit.—No. 3 yellow \$1.28; No. 4 yellow \$1.23; No. 5 yellow \$1.18.

Chicago.—July \$1.37½; September \$1.36; May \$1.35% @ 1.35½.

Detroit.—No. 2 white at 58c; No. 3

white 57c. Chicago.—July at 56c; September at 54%c; May 54%c.

Rye.

Detroit.—Cash No. 2, \$1.58.
Chicago.—July \$1.44½; September \$1.28½; May \$1.66.
Toledo.—\$1.54.

Beans.
Detroit.—Immediate. and prompt

Detroit.—Immediate and prompt shipment \$6.20@6.25 per cwt.
Chicago.—Navy, choice \$6.65@6.75; red kidneys \$10@10.50. and prompt

New York.—Choice pea \$7.15@7.25; red kidneys \$10.25@10.50.

Barley.
Detroit.—Malting \$1.08; feeding at \$1.01.

Buckwheat. Detroit.—\$2.20@2.25. Seeds.

Detroit.—Prime red clover cash at \$18.65; alsike \$12.85; timothy \$3.10.

Hay. Detroit.—No. 1 timothy at \$16@17; standard and light mixed at \$15@16; No. 2 timothy at \$14@15; No. 1 clover and No. 1 clover mixed \$14@15; wheat and oat straw \$10.50@11; rye straw \$12.50@13.

Feeds.

Detroit.—Bran at \$32; standard middlings at \$33; fine middlings \$39; cracked corn \$57; coarse cornmeal at \$55; chop \$41.

Apples.

Chicago prices on apples: Northern Spies at \$8.50@9 bbl; Baldwins \$6.50 @6.75; Jonathans \$9.50 bbl; Kings at \$6.50@7; Greenings \$7@7.50 bbl; Wageners \$5.25@5.50 bbl; Grimes \$5.50@5.75; Starks \$6@6.50; Ben Davis \$5@5.70

WHEAT

Wheat prices have had a smart recovery in the last week. Fair export sales and expectations of bullish reports on farm reserves furnished the ammunition for starting the upswing. Advance estimates indicate that farm reserves of wheat are small, a view that is supported by the heavy movement to primary markets thus far in the crop year. The visible supply decreased last week but it is much larger than in years when a squeeze has er than in years when a squeeze has resulted because of a shortage of grain resulted because of a shortage of grain for delivery on May contracts. It is still too early to determine the condition of the winter wheat crop, but complaints of damage are not widespread. Part of the dry area in the southwest has had rain the last week, and the condition of the Kansas crop is better than when winter began.

RYE

Rye prices are taking their cut from wheat most of the time. The visible supply is shrinking more slowly than wheat, the seaboard stocks are not disappearing very rapidly, and the reports of sales a month or six weeks ago have not yet been confirmed by clearances. Foreign countries continue to get along with less imported rye than their estimated needs

CORN

averaged higher in Corn prices ha Corn prices have averaged higher in the last week. The market is a struggle between an extremely slow demand and a large visible supply on the one hand, and a small movement to primary markets on the other. Receipts proportionately as light as they have been recently, continued over the next four or five months, could offset next four or five months, could offset the slow demand and large stocks and bring about commercial scarcity after all.

The oats market is about the same as a week ago. Demand has improved slightly, but there is little prospect of distributing the burdensome stocks of oats before the new crop. While farm reserves of corn and wheat are believed to be below normal, holdings of oats still in first hands probably are above normal.

SEEDS

Seed markets are dull with prices depressed by listless buying. Cash demand should improve with the opening mand should improve with the opening of spring as few farmers have their sowing requirements. A decline in prices followed by quiet trading frequently precedes the heavy spring demand so that the present dullness may be the forerunner of a more active market.

HAY

The hay market declined again last week. Mild weather curtailed consumption, and dealers are still stocked up from the big January run so that demand generally was very dull. Top grades of hay are scarce and find a fair demand at all times. The market is glutted with poor grade hay which is hard to move even at big discounts. Prices for this lower grade stuff are so cheap that they frequently leave only a small return to the shippers after the expense of hauling and shipping have been deducted.

POULTRY AND EGGS

Egg prices have declined to new low levels for the year. Declines have been even more drastic in primary markets where prices are based on the prospective value at the terminal markets. Country collections are increasing rapidly. The present declines have not been unexpected as a good-sized down been unexpected, as a good-sized down-turn usually occurs just before the seaturn usually occurs just before the season of buying and packing for storage. Prices during the first part of the new egg year, which begins March 1, will undoubtedly average higher than a year ago when, at one time during the flush of production, eggs were cheaper than at any time in eight years.

Chicago.—Eggs, checks at 27c; fresh firsts 29@30c; ordinary firsts 28c. Live poultry, hens 24@25c; springers 28c; roosters 18c; ducks 27c; geese 14c; turkeys 23c.

Defroit—Eggs, fresh candled and

Detroit.—Eggs, fresh candled and graded at 29½@31½c. Live poultry, heavy springers 29c; light springers 24@25c; heavy hens 29c; light hens 24@25c; roosters 16¾@17c; geese 18@20c; ducks 32@33c; turkeys 35c.

cent advance of three cents a pound. cent advance of three cents a pound. Consumption is satisfactory and production continues lighter than a year ago. High-priced feeds have induced lighter feeding, condensaries are actively bidding for milk in view of their small stocks, cheese factories have been netting more money for milk than creameries were able to pay, all of which has contributed to the lighter make. The movement of storage stocks into distributive channels so far in February has been nearly 200 per in February has been nearly 200 per cent larger than in the same period a

year ago. Foreign markets are firm at the recent advance so that there is nothing to fear from imports of butter. Prices for 92-score creamery were: Chicago 43½c; New York 44c. In Detroit fresh creamery in tubs sells for 39@42c per pound.

BEANS

The bean market is slightly higher with C. H. P. Whites quoted at \$6.35 per 100 pounds for prompt shipments F. O. B. Michigan points. Deliveries have been light because of bad weather and belief in higher prices on the part of many growers. The demand is slow, however, as canners are buying few and wholesale grocers are taking beans only on a hand to mouth basis. It is possible that the upturn will stimulate some buying but most distributors are inclined to wait for a slightly lower level of prices. In general, the disposition is to wait for slightly lower prices. There seems to be a good latent demand for beans that would show up if the price dropped to \$6.

WOOL

The wool market is still rather unsettled and fine wools are still easing in price. The decline in price seems to have stimulated the interest of manufacturers to some extent and the efforts of the Australian wool dealers to stabilize prices by withholding wool from the market, have inspired some confidence. On the other hand, some holders of wool bought considerably below the present market are willing to sell on the decline.

POTATOES

BUTTER

Butter prices are firm after the re
Butter prices are firm after the re
Butter prices are firm after the re
Midwestern potato markets were steady last week, although the eastern markets declined, losses ranging from 10 to 35 cents per 100 pounds. Carlot

Veal Calves.

Hogs.

 Receipts 1,231.
 Market 25c higher.

 Mixed hogs, heavy y'rkrs.\$11.95@12.00

 Pigs
 8.00@10.00

 Yorkers
 12.75

 Little yorkers
 12.25

 Roughs
 11.00

BUFFALO

Hogs.

Roughs

Stags

shipments of potatoes decreased about 600 cars during the week. Some new potatoes are beginning to come on the market. Compared with last year, the acreage planted or intended to be planted to early potatoes shows a probable decrease of 10 per cent in Alabama and eastern Virginia, 20 per cent in South Carolina, 25 per cent in Florida, and 33 per cent in North Carolina. Northern sacked round white, U. S. No. 1, are \$1@1.10 per 100 pounds in the Chicago carlot market.

HORSES

Horse prices were slightly lower last week because of a heavier run, but sales of desirable farm chunks weighing 1,300 to 1,400 pounds are still being made at range of \$125@150 in Chicago. This is still \$10@15 lighter than when the season areas but the unan cago. This is still \$10@15 lighter than when the season opened, but the upper limit at \$150 seems to be quite rigid. The eastern states, Michigan and Wisconsin, are buying most of the offerings. Farm chunk trade will be brisk for another month or six weeks. Buyers are standing in line for all the good drafters arriving at price up to \$250.

DETROIT CITY MARKET

Apples were in light supply and the demand was only fair. Buying was not heavy enough to clean up the offerings of greenhouse stuff, and radishes and lettuce took some price cuts. Cabbage, carrots, parsnips and other root crops were slow to move off. The demand for horseradish had a little more life. Rhubarb was in moderate supply and sold easily. Offerings of potatoes dere light and found easy sale. Poultry had ready sale, while eggs moved slowly at 45%50c a dozen retail. Some small pigs were quick sellers at 18c small pigs were quick sellers at 18c

small pigs were quick sellers at 18c a pound.

Prices were: Apples \$1.25@3.50 bu; beets 65@75c bu; cabbage 65@75c a bu; carrots 65@75c bu; horseradish \$3@5 bu; dry onions, No. 1, \$1.50 bu; root parsley 75c bu; parsnips \$1 bu; potatoes, No. 1, 60@65c bu; root celery \$1@1.25 bu; honey \$1.25 per 5-lb. pail; butter 50c lb; eggs, retail 45@50c dozen; hens, wholesale 29@32c; retail 30@35c; springers, retail 30@32c; ducks, wholesale 32c; hogs, small 18c; dressed poultry, hens 35@38c; springers 35@38c.

GRAND RAPIDS

Butter-fat values have advanced sharply in Grand Rapids, rising from 39@40c a pound two weeks ago—to 45@46c a pound. Eggs have declined to 28@30c a dozen, while beans have climbed to \$5.60@5.65 per cwt., and wheat has jumped to \$1.80 per bushel. Poultry is lighter supply and prices on fowls and late hatched heavy springers have risen to 25@26c a pound. Veal was easier at 13@15c a pound; pork steady at 14½@15c; prime beef 12@14c. Vegetables were mostly unchanged, although greenhouse products have 14c. Vegetables were mostly unchanged, although greenhouse products have eased to 12@13c pound on leaf lettuce and 60c per dozen bunches on radishes.

Best lambs \$17.50@17.75 Fair to good sheep 7.55@ 7.75 Light to common 9.00@14.25 Yearlings 13.50@14.75 Fair to good sheep 8.00@ 9.00 Culls and common 4.00@ 6.50 Buck lambs 7.00@16.00

Live Stock Market Service

Tuesday, March 3.

CHICAGO Hogs.

Receipts 22,000. Market active, 15@ 25c higher. Average tops \$12.95; 170 lbs. and up \$12.50@12.90; bulk, 140 to 150-lb. average at \$12@12.25; packing sows, mostly \$11.75@12; better light weight slaughter pigs largely, \$11.50 @11.75.

Cattle.

Receipts 19,000. Fed steers \$11.85; tops weak; early top yearlings at \$11; some heavy held around that figure; bulk early sales \$10@10.50; vealers 25c or more higher, largely \$11.50 to shippers; to packers \$14@15.

Sheep and Lambs.

Receipts 17,000. Market very slow; few early sales of fat lambs; weak to 25c lower; few good lambs \$17@17.50; no choice handy weights sold; feeding lambs steady; fat ewes at \$9.75@10; feeding and killing lambs \$16.75@17.25.

DETROIT

Cattle.

	No.	
Receipts 282. Marke		
Good to choice yearli		25
Best heavy steers, dry		
Hendyweight butchers		50
Mixed steers and hei		60
Handy light butchers.		50
Light butchers		00
Best cows		00
Butcher cows	4.00@ 4.7	75
Cutters		
Canners		00
Choice bulls		15
Heavy bologna bulls .		50
Stock bulls		0
Feeders		0
Stockers	5.25@ 6.2	
Milkers	45.00@70.0	00
Sheep and L	ambs.	
Descipte 1 E44 Moul		

Receipts 1,544. Market steady.

Receipts 6,420. Market is closing steady. Heavy sold at \$12.40@12.50; medium \$12.10@12.25; light \$13.25@13.35; light lights \$12@13; pigs \$11.75@12; packing sows and roughs \$11.25. Cattle. Receipts 1,100. The market is steady, 25c higher, with steers from 1,100 lbs. up at \$7@10.10; steers 1,100 lbs. down \$6@10; load of yearlings at \$10.50; heifers \$5.50@8; cows \$2.50@6; bulls \$4@5.50; asking \$10 for loads of Sheep and Lambs.

Receipts 1,100. Tops \$18; culls \$7 down; culls at \$16.75 down; yearlings at \$14.50@15; wethers at \$11@11.50; ewes \$9.50@10.50.

Calves.

Receipts 300. Tops \$15.50@15.75; culls \$15 down.

BEAN GROWERS HOLD ANNUAL SESSION.

HE annual meeting of Michigan Bean Growers' Association was held in Saginaw last week. Presheld in Saginaw last week. President A. B. Cook, in calling the session to order, reviewed in general the items of chief interest to the bean industry at this time. There were about 110 persons present, including, besides the growers, several jobbs and others interested directly and indirectly in the industry. industry.
Emphasis was given to the matter

of uniform marketing. About forty-two per cent of the average crop is marketed before the first of January. If an even flow of beans moved from the farms, it would be less difficult to stabilize the markets, so jobbers contend. Growers hold that, aside from the necessity of selling early to procure funds, the wide fluctuation of quotations is the chief cause of an uneven flow from the farms. flow from the farms.

flow from the farms.

Robust beans had its innings. They were opposed on the grounds that they did not soak up asreadily as the common beans, and when mixed did not make a uniform mess. Professor Rather, of the Crop Improvement Association, had cooked batches of both common and Robust which had been soaked an equal length of time. These were passed to the crowd for sampling. The opinion was that there was little, if any, difference between them.

Professor Rather urged growers to plant this variety from four days to a

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week earlier than common beans are put in. It is a prolific bearer, and is disease resistant as compared to many other kinds, for which reasons more and more of the variety are being grown. Two hundred pounds of phosphoric acid will hasten ripening and give a better bean. Under certain conditions, says Mr. Rather, this bean will wrinkle, the same as do the common varieties. Excessive moisture appears to be largely responsible for this trouble.

to be largely responsible for this trouble.

The advertising program, agreed upon last summer, is suffering from the hands of certain jobbers, according to information given out at this session. Mr. Merrick, custodian of the funds raised for advertising, stated that less than \$5,000 had been paid in from sixty elevators. Outside of this small group, who complied with the plans unanimously adopted by the jobbers, nothing apparently has been done. Every farmer present at this meeting seemed favorable to subscribing his one cent per of beans offered. It was also reported that a return postal, sent to several thousand farmers in the Thumb district revealed the fact that farmers, almost to a man, stood ready to subscribe to the plan, only fifty of the whole number not being returned. All that were returned favored advertising Michigan beans.

The potential value of the bean at

The potential value of the bean at even current prices should make it possible to considerably increase the

capita.

Several present, including a number of jobbers, urged strongly the adoption of a resolution addressed to the bureau of economics of the department of agriculture, opposing and change "in our present universally accepted and satisfactory bean grades until such times as the need shall become apparent to those actually engaged in some phase of the industry, or as the result of suggestion or demand from the bean consuming public." The resolution was adopted, and wired to Washington where a committee of Michigan jobbers were then attending a hearing before the bureau of economics. fore the bureau of economics.

CALVES CALVES Otto F. Bernstein 2478 Riopelle Street, Detroit, Mich. Largest and Oldest Exclusive Veal Merchants in City.

We give your shipments our personal attention, get you BETTER PRICES and QUICKER RETURNS as we always have an outlet for veal.

Est. 4895. Ask your Bank for References.

KINKADE GARDEN TRACTOR

e and Power Lawrimower
A Practical, Proven Power Cultivator for a
Gardeners, Suburbanites, Truckers,
Florists, Nurserymen, Fruit Growers.
American Farm Machine Co.
2593 Uni.Av.S.E.,Minnespolis, Minn.

CLASSIFIED ADVERTISING

This classified advertising department is established for the convenience of Michigan farmers. Small advertisements bring best results under classified headings. Try it for want ads and for advertising miscellaneous articles for sale or exchange. Poultry advertising will be run in this department at classified rates, or in display columns at commercial rates.

Rates 8 cents a word, each insertion, on orders for less than four insertions; for four or more consecutive insertions 6 cents a word. Count as a word each abbreviation, initial or number. No display type or illustrations admitted. Remittances must accompany order.

Real estate and live stock advertising have separate departments and are not accepted as classified.

One	Four	One	Four
10\$0.80	\$2.40	26\$2.08	\$6.24
11	2.64	27 2.16	6.48
12	2.88	28 2.24	6.72
13 1.04	3.12	29 2.32	6.96
14 1.12	3.36	30 2.40	7.20
15 1.20	3.60	31 2.48	7.44
16 1.28	3.84	32 2.56	7.68
17 1.36	4.08	33 2.64	7.92
18 1.44	4.32	34 2.72	8.16
19 1.52	4.56	35 2.80	8.40
20 1.60	4.80	36 2.88	8.64
21 1.68	5.04	37 2.96	8,88
22 1.76	5.28	38 3.04	9.12
23 1.84	5.52	39 3.12	9.36
24 1.92	5.76	40 3.20	9.60
25 2.00	6.00	41 3.28	9.84

REAL ESTATE

CALIFORNIA FARMERS make more money on small farms in San Joaquin Valley, California, where you can work outdoors all the year. Splendid opportunities for men of moderate means. Twenty and forty acre farms produce alfalfa abundantly. Dairying, hogs and poultry make good returns; staple varieties of fruits yield dependable profits; combination of these means a well-balanced farm with good income throughout the year. Winterless California offers much to the man looking for a country where he can get the most out of life. Climate delightful, long growing seasons; wonderful roads; excellent schools. Cooperative marketing associations afford profitable outlets for all produce. A small one-family farm, cutting out high labor costs, insures success. No winter handicaps. San Joaquin Valley illustrated folder mailed free on request. C. L. Seagraves, General Colonization Agent, Santa Fe Ry., 912 Railway Exchange, Chicago, Ill.

\$400 SECURE STATE RD. HOME—Furniture, Cow, Poultry, Pig, potatoes, etc., thrown in; ideal for road-side market, on state pike, few steps RR, high school, other advantages; 1½ acres garden soil; 6-room house, near lakes, barn; poultry house. Low price \$900 takes all, only \$400 needed. Details pg. 156 big new Spring Catalog. Free. Strout Farm Agency, 205BC Kresge Bldg., Detroit, Mich.

FOR SALE—142 acres 1½ miles east of Munith, Mich. Land in A No. 1 condition. Good buildings. \$70 per acre. Plenty of timber. Immediate possession. Easy Terms. Address, John Ryan, 613 Hill St., Ann Arbor, Mich.

A 120-ACRE FARM located in Allegan County, land and buildings in fair condition. Any reasonable offer will not be refused. Reason for selling, house burned down. No money to re-build. For further information write Joseph Alflen, Moline, Mich.

IMPROVED FARMS, Plantations and Ranches taken under foreclosure. We own and operate approximately 50,000 acres in tracts of 50 to 2,400 acres distributed over 14 different states; will sell regardless of cost, and very easy terms. Send for list. Boyer Land Co., 304-5 International Life Bldg., St. Louis, Mo.

WANT TO BUY A FARM? Send for Michigan Resort and Farm Service Guide, it's free. Many excellent resort and farm bargains listed in each number. U. G. Reynolds, Gladwin, Mich.

FOR SALE—220-acre farm in Jackson Co. on state road. 100 acres heavy loam soil. 40 acres heavy oak timber, remainder mowing marsh and pasture. Ad-dress Box 88, Michigan Farmer.

80-ACRE FARM for sale by owner. Mostly gravel and black sand. Young orchard, 1000 trees, situated 30 miles north of Detroit, on State Road. Stock and tools if desired. Thomas Nunneley, New Haven, Mich., Macomb Co.

FOR RENT—My farm, 170 acres. Fully equipped 5½ miles north of Fowlerville on state road. E. Collier, Fowlerville, Mich.

20-ACRE FRUIT and poultry farm, adjoining town, only \$500 needed. DeCoudres, Bloomingdale, Mich. WILL SELL OR TRADE for farm, my five story modern equipped Elevator, and fine modern residence. Address J. E. Skeoch, Coral, Mich.

MISCELLANEOUS

OLD MONEY WANTED—We paid \$2,500.00 for one sliver dollar to Mr. Manning, of Albany, N. Y. We buy all rare coins and pay highest cash premiums, Send 3c for large Coin Circular. May mean much profit to you. Numismatic Bank, Dept. M, Fort Worth, Texas.

Special Notice

All advertising copy discontinuance orders or change of copy intended for the Classified Department must reach this effice ten days in advance of publication date.

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BEFORE YOU BUY a gas engine, be sure to get the facts about The Edwards Farm Engine. Sold on your own terms. Write for free circulars and full information. Edwards Motor Co., 19 Main St., Springfield, Ohio.

FOR SALE CHEAP—a small Fruit Farm, well located and fertile, 1.400 trees, nearly all bearing, also a lot of Raspberry, Gooseberry and Currant bushes. H. J. Heard, Croswell, Mich.

UP-TO-DATE meat market for sale, doing good business, reason for selling is on account of health. Antonio Genco, Box 352. Mason, Mich.

WANTED—Experienced thresherman wants whole or half interest in good threshing machinery. Fred Preston, Scottville, Mich., Gen'l Del.

FOR SALE—New Fordson Tractor and two-bottom Vulcan Plow. Will discount \$100. Delivery 50 miles from Kalamazoo. Terms. J. C. Upton. Bristol, Ind.

FOR YOUR SAVINGS-6% to 6½% on safe tax exempt City Bonds. Write for information. Ringheim & Co., Des Moines, Iowa.

GLADIOLI—75 blooming size, \$1. Ten Iris, mixed, \$1. Catalogue free, Gladwood Gardens, Box R. Copemish, Michigan.

BEAUTIFUL FAMILY RECORD—Birds in flight. Remember dear ones at home and in heaven. Postpaid 50 cents. H. N. Burrows, Box 276, East Tawas, Mich.

CEDAR POSTS in carlots, direct from producer. Write for prices. E. Doty, Atlanta, Mich.

GLADIOLUS BULBS—Write for descriptive price list. George Hunter, Dowagiac, Mich.

FARM DITCH DIGGER—Have you ditching to do Write C. G. Alden, 225 E. Tenth Street, Erie, Pa.

PRACTOR STARTERS FOR FORDSONS—literature ree. Climax Tractor Starter Co., Climax, Mich.

BEES FREE—Trap Stray Swarms. Interesting literature free. Ed. Swenson, Spring Valley, Minn,

TOBACCO

HOMESPUN TOBACCO—Chewing. 5 lbs., \$1.50; Ten. \$2.50. Smoking, 5 lbs., \$1.25; Ten., \$2. Pay when received, pipe and recipe free. Farmers' Union, Paducah, Ky.

HOMESPUN TOBACCO—Chewing, 5 lbs., \$1.50; 10 \$2.50. Smoking, 5, \$1.25; 10, \$2. Mild, 10, \$1.50. Pay when received. F. Gupton, Bardwell, Ky.

SEEDS AND NURSERY STOCK

FROSTPROOF CABBAGE PLANTS. All leading varieties. Bermuda Onion, Earliana and Baltimore Tomato Plants, 500, 75c; 1,000, \$1.25; 5,000, \$5.00. Porto Rico Potato plants: 500, \$1.50; 1,000, \$2.50. By mail or express. Charges collect. Cabbage and onion now ready, others April 1st. All well rooted, open field grown from best seeds. We guarantee satisfaction, prompt shipment, safe arrival. Descriptive list free. Reinhardt Plant Co., Ashburn, Georgia.

FROST PROOF Cabbage Plants and Tomato Plants. Varieties: Early Jersey and Charleston Wakefield. Copenhagen Market, Flat Dutch and Succession. Tomato: Greater Baltimore. Earliana and Livingston Globe. Prices, Parcel Post Paid, 500, \$1.50: 1.000, \$2.50. Express collect, \$1.25. 1.000. We ship the size of plant you wish. Satisfaction guaranteed. Tifton Potato Company, Inc., Tifton, Ga.

SEND US \$2.90 and we will send 300 Champion everbearing strawberry plants. 100 Cooper for \$2.00; 200 Premier for \$1.50. Plants sent C. O. D. for postage. Order Direct. Catalog free. South Michigan Nursery, New Buffalo, Michigan, Ref. No. 14.

CABBAGE, ONION, TOMATO PLANTS shipped anywhere United States, \$1.25 thousand. Descriptive list sent free telling how to grow early vegetables. Agents Wanted. Carlisle Produce Co., Inc., Valdosta, Ga.

HARDY FIELD GROWN—Chrysanthemums, sweet william, daisles and all old-fashioned or hardy perennial flowers. Iris, cannas, gladiolus, and tuberose bulbs. Spiraeas, shrubbory, climbing vines, roses, or namental trees and hedging. Strawberry plants. Rhubarb and asparagus roots. Thousands of satisfied customers. Delivered prepaid prices. Send for catalogue. Weaver Gardens, Wichita, Kansas.

BABY CHICKS—Sliver L. and White Wyandottes, Barred Rocks, R. I. Reds, Anconas, White and Brown day-old to eight weeks old. Fifteenth year. Write Shepard Poultry Farm, Litchfield, Mich.

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RHUBARB-MAMMOTH VICTORIA—1-yr. whole roots, 26, \$1; Giant Crimson 3-yr. divisions, 8, \$1; Asparagus Roots, 50, \$1. Delivered prepaid anywhere. Weaver Gardens, Wichita, Kans.

FREE—NEW RED RASPBERRY—Tip Grower, Very Hardy. Send for Literature. Strawberries \$3.00 per 1,000. All Small Fruit Plants. Dept. H. Hellenga's Nursery, Three Oaks, Mich.

MILLIONS Strawberry Plants \$2,95 per 1,000. Rasp berries, Grapes, Bulbs, Flower Seeds, Chicks. Illus trated catalogue Free. Mayers Plant Nursery, Mer rill, Mich.

GUARANTEED—Progressive Everbearing Strawberry Plants. New Ground Plants \$1.00 Hundred, \$9 Thousand. Postpaid. State Inspected. William Fuchs, Box 123, Allegan, Mich.

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CERTIFIED Wolverine Oats. Certified Robust Beans. Postal card brings particulars. A. B. Cook, Owosso, Mich.

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ASPARAGUS—Giant, Washington, Rust Proof and Mary Washington. Best varieties. Circular price list free, J. C. Dunham, Lawton, Mich.

ASPARAGUS—Why not plant the largest, tenderest most profitable, "The Washington"? 100 roots \$1.25, 1000 \$8.00. Prepaid. Glick Seed Farm, Lancaster, Pa.

CERTIFIED Improved Robust Beans, Wisconsin Pedigree Barley. Fritz Mantey, Fairgrove, Mich.

GRADED Yellow Dent Seed Corn, 98% Germination, \$4 for 56 lbs. E. R. Vincent, St. Johns, Mich.

REGISTERED WOLVERINE OATS—Michigan's Best. C. D. Finkbeiner, Clinton, Mich. 1923 CHOICE SEED CORN—250 bu. High test. W. Ettinger, R. 1, Dearborn, Mich.

WOLVERINE OATS-Robust Beans. F. DeWitt & Son, Wheeler, Mich.

CERTIFIED Petoskey seed potatoes. J. B. Gray, R. 1, West Branch, Mich.

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THOROUGHBRED COLLIE PUPS—Some natura Heelers, also grown Stock. Sable and White Collie a Stud. G. J. Dunnewind, R. 1, Comstock Park, Mich

FOR SALE—Registered Collies, natural heelers, vercrest Kennels, Gladwin, Michigan.

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POULTRY AND FRESH EGGS WANTED—Will pay nighest prices for broilers, fryers, 1½, 2, 2½ lbs. each, fat hens. Strictly fresh white hennery eggs. Write for quotation. East Coast Poultry Co., 700 Alfred' St., Detroit, Mich.

MARCY FARM AND HOFFMAN'S fifteen-pound strain Jersey Black Giants. Unrelated trios \$10; \$3.00 each in larger quantities. Eggs \$2.00 per fifteen. Also thoroughbred Bronze turkey eggs in season. J. G. Hiebert, Middleton, Mich.

WHITE LEGHORN EGGS for Hatching. From Farm Flock. Also Pen mated direct Ferris 265 to 300-egg Strain. Eggs \$12 and \$22 per 100. Riverview Farm, Vassar, Mich.

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S. C. BUFF ORPINGTON Hatching Eggs. Blue riboon winners. M. A. C. \$3.00 per setting. T. E. Chesnut, R. 6, Lansing, Mich.

COCKERELS—Holterman's Strain of Barred Plymouth Rocks, strong, healthy birds, \$3.00. Mrs. Glen Arnold, Saranac, Mich.

68 VARIETIES Fine pure-bred chickens, ducks, geese, turkeys, fowls, eggs, baby chicks. Catalog free. Ziemers Hatchery, Austin, Minn.

GOLDEN WYANDOTTES and Silver Hamburgs, vig orous cockerels, \$2 to \$3 each. Earl Warner, Otsego

BARRED ROCKS—Thirty hens and Pullets from high record hens. Also, my contest pen. Led all Rocks Prices right. J. V. Sheap, Owosso, Michigan.

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RHODE ISLAND REDS R. C.—Large fancy cocker els at §3 each. Burt Sisson, Imlay City, Mich.

EGGS from Ringlet Barred Rocks \$5.00 per 100, \$2.00 per setting. Robert Martin, Woodland, Mich.

S. C. REDS—heavy laying strain. Eggs 6c, postpaid. Chicks 15c. Myron Mason, Cloverdale, Mich.

BUFF ORPINGTON hatching eggs from high class birds. Also Buff Duck eggs. Bert Bailey, R. 11 Holland, Mich.

S, C. WHITE LEGHORNS—Laying pullets, extra se lected \$1.50. O. A. Braman, Palo, Mich.

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"ILLINOIS ACCREDITED" pure-bred chicks. State-inspected breeding stock. Barred Rocks, Single Comb Reds, \$15-100. White Wyandottes, Buff Orpingtons, White Rocks, \$16-100. Postpaid, 100% live delivery. Hatch every Monday, order from ad. Member International and Illinois Chick Association. Earlyille Hatchery, 30 Ottawa St. Earlyille, Illinois.

RICHARDSON'S ROCKY RIDGE pure Parks strain Barred Rock Baby Chicks, \$16 per 100. Hanover, Mich.

BABY CHICKS from America's pioneer hatchery have pleased over 25,000 customers. 22nd season. We hatch twenty popular varieties. Guaranteed safe delivery by prepaid parcel post. Write for 40-page catalog and free premium offer. Miller Hatcherles, Box 759, Lancaster, Mo.

SUPERIOR QUALITY Barred Rock and Pure Hanson White Leghorn Chicks. Stock Blood Tested second season. Highest Barred Rock at Michigan and Missouri Contests, 1923-24. Contest winners 1921. Discount for early orders. Satisfaction guaranteed. Circular Free. Aseltine Poultry Farm, 1827 Belden, Grand Rapids, Mich.

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OAKLAND HILLS QUALITY CHICKS—Strong, vigorous, true to breed, profitable, English Leghorns, Reds, Rocks, White Wyandottes, etc. Safe delivery guaranteed. Circular free. Oakland Hills Poultry Farm, Farmington, Mich.

INCREASE YOUR PROFITS with chicks from these flocks. \$108.78 was market value of eggs laid in December by one of 'our flocks of 125 pullets. Quality chicks at low prices. Boocher's Hatchery, Burr Oak, Mich.

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BABY CHICKS—S. C. W. Legherns (Hollywood Strain). Barred Rocks (Parks Strain). Send for cat-alogue. Snowflake Poultry Farm, Route 5, Middle-ville, Mich.

BABY CHICKS—Barron Strain White Leghorns and Barred Rocks. Satisfaction and 100% live arrival guaranteed. Send for description and prices. Baker's Hatchery. Jamestown, Mich.

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BARRON S. C. W. LEGHORN CHICKS—heavy egg producing strain, first hatch March 16th. 100% live delivery guaranteed. Waterway Hatchery, R. 4, Hol-land, Mich.

BABY CHICKS at living prices. Fourteen popular varieties. High egg production and standard qualities combined. Michigan State Fair Winners. Write for prices. Litchfield Hatchery, Litchfield, Mich.

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CHICKS—English Strain White Leghorns, M. A. C. Barred Rocks and Black Minorcas. Circular. Hill-side Hatchery, R. 3, Holland, Mich.

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QUALITY CHICKS—12c up. From strong, healthy flocks. Rocks, Reds, Leghorns, Anconas. Mating list free. Shady Lawn Hatchery, R. 2, Zeeland, Mich.

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S. C. BUFF LEGHORN CHICKS—First hatch March 3. Circular. Willard Webster, Bath, Mich.

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TURKEY EGGS—Mammoth Bronze, Bourbon Red, Narragansett and White Holland. You should place your order early. Write Walter Bros., Powhatan Point, Ohio.

MAMMOTH BRONZE TURKEYS—First prize winners Michigan State Fair last three years. Walnut Hill Farm, Milford, Michigan.

GIANT BRONZE TURKEYS—Goldbank Strain, Choice heavy birds. Satisfaction guaranteed. Mrs. Perry Stebbins, Saranac, Mich.

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GIANT BRONZE gobbler 2 years old. Bird Bros., \$10, weight 31 lbs. Mrs. Glen Arnold, Saranac, Mich.

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WANTED—man with small family. Must understand machinery and all stock. Good yearly terms. Chance or advancement. Farm close to University, and one nour from Detroit. C. E. Vreeland, 1713 David Whitney Bldg., Detroit; Michigan.

WANTED-MARRIED MAN with farm implements, horses and cows, to rent fine farm near Toledo; convenient to concrete road and City markets. Jerome Probst, Ann Arbor, Michigan.

WANTED, single man on large farm near Dearborn, Good wages, steady position. T. W. Campbell, R. 1, Dearborn, Mich.

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WANTED—Position as foreman on farm. Can furnish best of references. Earnest Baker, Route 1, Reese, Mich.

TRY a Michigan Farmer Classified Liner. They bring results



Copper-Bearing Steel Wire

and patented "Galvannealed" zinc coating guarantees many years of extra service



THIS new Square Deal fence has a zinc coating two to three times heavier than ordinary galvanized wire—therefore it lasts two to three times longer. This is proven by nationally recognized authorities such as: Indiana State University, R.W. Hunt Company, Chicago, and C.F. Burgess Laboratories, Madison, Wis. (Copy of official reports mailed free upon request.)

These experts made many tests from of its zinc coating. The columns below hundreds of wire samples purchased on the open market, made by the principal U.S. manufacturers. Each class of fence wire was carefully stripped

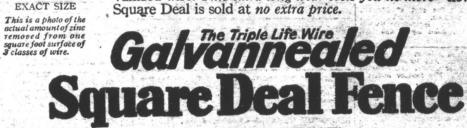
(actual photograph) show how much more zinc patented "Galvannealed" wire earries than any other kind of farm fence.

1 "Galvannealed." This column shows the actual average amount of zinc removed from one square foot of surface of "Galvannealed" wire. This column proves that patented Square Deal wire carries almost twice as much zinc as the next best farm fence you can buy anywhere. (See No. 2.)

2 This column shows the actual average amount of zinc removed from one square foot of the best farm fence made, except "Galvannealed." Note that there is only about one-half as much zinc on best galvanized wire as there is on "Galvannealed."

3 Ordinary Galvanized Wire. This shows the actual average amount of zinc removed from one square foot of surface of several hundred samples of ordinary galvanized wire. Note that there is only about one-third as much zinc on ordinary wire as compared to "Galvannealed."

The life of fence wire depends upon the amount of zinc protection on the outside of the wire. Because patented "Galvannealed" has a much heavier zinc protection it lasts many years longer than galvanized wire. This extra long wear costs you no more—new patented Square Deal is sold at no extra price.



(NO EXTRA PRICE)

Not only is this new Square Deal protected on the outside, but it is rust-resisting clear to the core, because we use 15 to 30 points copper with the steel from which this patented fence wire is made. It is a well-known fact that copper-bearing steel resists rust at

EXACT SIZE

per ton in Square Deal than ordinary galvanized wire, yet it costs you no more than the kind that lasts only one-half or one-third

This new Square Deal, guaranteed to outleast twice as long as steel without copper. RED STRAND (top wire). Always look There is about \$5.00 more material value for it. Write for free "Proof of Tests."

KEYSTONE STEEL & WIRE COMPANY 4952 Industrial Street, Peoria, Illinois

All Square Deal fence is now made by the patented "Galvannealed" process. No one except Keystone can "Galvanneal" wire. Likewise, no one except Keystone can mark their fence with the RED STRAND. Genuine, long-lasting Square Deal fence has the top strand painted RED-always look for it. No Extra Price.

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(1) Ropp's Calculator (worth 50c) answers 75,000 questions around the farm. (2) Copy of Official Proof of Tests, which show why patented Square Deal outlasts all others. (3) Square Deal Catalog, tells all about this neat and trim fence: also about guaranteed non-slip knot; one-piece stay wires that make fewer posts necessary; well-crimped springy line wires that expand and contract with the seasons. A postal brings all 3 free. Write!

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