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ONE YEAR \$1.00 FIVE YEARS \$3 00

Encouraging the "Son to Shine"

The Spirit of Play Wisely Directed Produces Astonishing Results.

N OT many years ago the thought prevailed that the wisdom of the ages could be obtained only from venerable sages. In other words, the individual would have to go through a process of ripening by age before he was considered a valuable asset to the community. But now, it seems that the tendency is toward the fulfillment of the prediction that "the child shall lead them."

Young men and young women now occupy positions of trust and responsibility. This makes it seem that the young of today have skipped years of experience which were deemed essential for developing good judgment in the world's activities. Young doctors, lawyers and other professional men no longer thing it necessary to grow a mus-

tache and beard to give them the appearance of age and ripened experience. In fact, the time of safety razors and barber shops is here, not only because of greater sanitation in the smooth shaven face, but also because today the endeavor is to keep young instead of trying to appear mature and sedate as quickly as possible.

That this is truly an age of youth is shown by the success of boys' and girls' work in rural communities. This work has changed many a young life from one of country drudgery to a life full of keen and happy interest in rural affairs. The will to do has come with a knowledge of the opportunity in rural communities for accomplishing things worth while. The young folks are rapidly learning that rewards of happiness as well as of material things coming to those living in rural communities give greater satisfaction than do the rewards of city life.

Primarily the parents are supposed to be the educators of, and guides to their children, but with the development of civilization more and more of the child's education and preparation come from outside the family. At least, in the recent development of boys' and girls' club work parents have not been counselors of their children. In fact, it seems that now the child quite often leads the parent to better things. He may have shown through his work, ways to a better and a more profitable farming and to happier and more convenient homes.

Nor should the older folks feel discouraged at this condition of affairs. They should rather feel happy that the children have learned through education much that the parents gained through years of experience. They should feel pleased that, because of this the advancement of civilization is likely to progress faster than it has. It should make men optimists, for one cannot view these things without feeling assured that the world is growing better every day.

As a duty to the children, the world, and to themselves, parents should encourage their children to undertake some kind of good work. They should stand behind the boy and girl and encourage them to greater efforts, for encouragement is the most potent stimulant to accomplishment. Many have become famous because they had someone to advise and encourage them. Others who were naturally capable have remained mediocre because they have had no words of approval from those in whom they had confidence. Emerson says, "The chief want in life is somebody who shall make us do the. best we can." It therefore seems that one can do no greater thing for the future generation than to give cooperation and encouragement to the laudable ambitions of



the young. These boys and girls can be encouraged in their work by showing the results of their efforts to the public. The fairs and local shows furnish ideal places for making such exhibitions, since in these places the spirit of contest, one of the most compelling instincts of youth, prevails. The winning of an award brings honor to the boy or girl who makes the entry, and to be defeated will often stimulate greater determination for the next contest. The spirit of rivalry is always a great incentive to more earendeavor, especially nest among the younger people.

No limit should be set on the ambitions of youth. Where they have entered and won in the local and state contests they should be encouraged to compete at the national shows. There will be ample opportunity for this during the present year. The International Live Stock Exhibition, The International Grain and Hay Show, and the club judging contest to be held at Atlanta, Georgia, will all furnish the finest opportunities for these lads and lassies to do their very best. Among the various awards offered in the lists of prizes (Continued on page 773).

THE MICHIGAN FARMER



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DETROIT, JUNE 25, 1921 CURRENT COMMENT

HE promotion A Forward Step in ducers' Marketing

work done by the Michigan Milk Pro-Association which has resulted in the organization of

ed.

the Michigan Dairy Company, as reported in another column, is an im- The Income portant forward marketing step on which the dairymen of the Detroit market milk area are to be congratu-The results secured at the lated. Grove City plant, after which the first plant of the kind to be erected in the Detroit area will be modeled, indicate that the manufacturing of high-grade dairy products, such as Swiss cheese, which will equal the imported article, will return to the patrons a price for their product which will closely approximate the price for market milk. And when a chain of these factories has been completed, all of which are controlled by members of the Milk Producers' Association, who alone are eligible as stockholders, the facilities will be at hand for the development of an adequate plan for the disposal of the surplus milk in the Detroit area, thus removing a difficult sales handicap and the source of much dissatisfaction in the selling of the city milk supply.

Of course, this benefit will not be realized with the establishment of one factory, but this will be an important forward step toward the desired end, as it will enable the establishment of a market for the product and will be a needed experiment plant for the development of a chain of similar plants which will be a most valuable aid in the solution of the marketing problem in the area

Maintaining the

I N riding through the country the observant traveller sees

success of his business in the occasional new buildings which are being erected and in the frequent cases ations and repairs are in evidence. More farm buildings are being repainted this year than for several years past, and on every hand there is scribed by the Michigan Milk Producabundant evidence of the thought ers' Association, and the balance or which the average farmer is giving to majority of the stock by producers the maintenance of the farm plant.

vestment is one of the first laws of plan of organization contemplates, the Harwood; vice-president, John C. good business, and in this regard we sale of preferred as well as common believe Michigan farmers are ahead of stock, with provision for the redemp- Rabild.

the farmers of most other states. A the official report of those proceedings. the improvement of the plant and its economic efficiency. And in this regard Michigan farmers are also well in the vanguard, as both observation and available statistics will show. The extension of tile drainage in many sections, the more general and liberal liming of soils in other communities where this treatment is needed, the installation of better equipment and the adoption of labor-saving methods production which will go far toward overcoming the deflation handicap with which the farmers of the country have been confronted.

The consideration of these factors, together with lowered labor and other production costs, has resulted in a consensus of opinion that this season's farm production costs will range from twenty to thirty per cent below those of last year. This fact, together- with the prevailing tendency toward stabilization of values of farm products, should inspire optimism in business circles as well as among farmers. As a class, farmers have complained less. loudly regarding prevailing business conditions than have most classes of business men and are laying their plans and going about their production tasks more confidently and cheerfully, which fact is not only to their credit, but is a matter for sincere congratulation to the country in the present emergency.

THE Michigan Farmer owes an apology to the mem-Tax bers of the state sen-Amendment ate for the statements

made in a recent Issue to the effect that the submission of the proposed constitutional amendment permitting the passage of an income tax law was defeated in the senate. In this case we made the too common error of depending upon press

close second in business principles is This is always a mistake and one which we do not often make. The offiequipment to the point of greatest cial record shows that House Joint Resolution No. 1, entitled "A joint resolution proposing an amendment to Section 3 of Article 10 of the Constitution, authorizing the enactment of an income tax law," was passed by the senate on June 8, without debate under the application of the previous question. The vote was Yeas-27; Nays-3.

In preliminary discussions of the everywhere point to more economic proposition, as indicated in published reports, the arguments noted in our previous comment were advanced, presumably as a background for the expected defeat of the proposition, as was the case in the regular session. This is another illustration of the fact that legislators are very generally responsive to well definied public sentiment on any proposition which is before them for consideration, regardless of their personal views on same. We apologize to the members of the senate for our unintentionally misleading statements and commend. them for their final action in submitting this proposition to a vote of the people for their adoption or rejection. We also commend the governor for his action in directing the attention of the legislature to the proposition in the special session and using his influence in securing its passage.

News of the Week

Wednesday, June 15. S AMUEL GOMPERS, president of the American Federation of Labor, asks farmers to line up with laborers against capitalists.—General J. M. Gomez, former president of Cuba, dies in New York.—The house of repre-senatives passes, by an overwhelming vote, the Porter resolution declaring war with Germany and Austria at an ord Dectarn honkers accret to fur end.—Eastern bankers agree to fur-nish one-half of the fifty million dol-lar pool, formed for furnishing credit facilities to the live stock industry.— Senate refuses to accept Porter peace resolution passed by the house.—H. Griffin, a Hamtramck police officer, reports indicating the trend of legisla-tive proceedings without waiting for rests ten single-handed.—Railroad offi-

Dairy Company Organized

Saturday the Michigan Dairy of ten per cent per year after the third Company was formally organiz-This business organization is the result of the preliminary work done by the Michigan Milk Producers' Association on the plan to build and operate a number of modern dairy manufacturing plants in or around the Detroit market milk shed with the ultimate end in view of handling the surplus milk in the area during seasons of flush production in addition to their regular manufacturing business. The matter of the location of this first factory was left to the committee now making a survey of the territory, with power to act. The new company is being organized under the new Michigan corporation law, which permits a much evidence of the best suited to an organization of this its success. Farm Plant faith of the average kind which is ultimately destined to pany will be capitalized at \$120,000, a portion of which stock will be subwho will benefit directly or indirectly the first fiscal year or until. December The preservation of the capital in- by the operation of the plant. The

T a meeting held in Detroit last tion of the preferred stock at the rate year and for its reissue and distribution to producer patrons on the basis of their patronage, while the dividends which may be paid on the common stock are limited to seven per cent per annum, this making the enterprise purely cooperative in effect.

It is proposed to erect a plant on the plan of the model plant at Grove City, Pennsylvania, which has been so successfully developed through the aid of the Dairy Division of the United States Department of Agriculture. The development work of the Michigan Dairy Company will be in charge of Helmer Rabild, formerly of Michigan, but for some years in charge of the field work of the Dairy Division, at Washington. combination of the cooperative and Mr. Rabild needs no introduction to stock company plans, which in the Michigan dairymen, and his direction opinion of those who have made a of this enterprise will be generally thorough study of the proposition is looked upon as practical insurance of

Something over ten per cent of the farmer in the future serve a double purpose, viz., provide stock of this new corporation was suba permanent market for the milk of scribed before the formal organization producers in the territory where it is was completed. At the initial meeting located and a temporary market for a board of seven directors were electin which more or less extensive alter- milk from outside the territory when ed as follows: N. P. Hull, Lansing; the plan is fully developed. The com- R. C. Reed, Howell; L. W. Harwood, Adrian; Helmer Rabild, Adrian; M. L. Noon, Jackson; C. E. Gittins, Detroit; J. C. Near, Flat Rock; R. G. Potts, Washington; A. M. Eckles, Plymouth.

Officers were elected to serve for 31, 1921, as follows: President, L. W. Near; secretary-treasurer, Helmer t' a ant the chertan are a th

cials testify before the public utilities commission that auto and auto trucks have seriously hurt short distance passenger and freight business.

Thursday, June 16.

GOVERNOR GROESBECK speeds up work on soldier bonus so that the v var veterans can get their money by July 1.—Congress serves notice on the new shipping board that it must end extravagance and waste before it gets more money to build ships .-- The building strike in Cleveland which af-fected twenty-five thousand men and forty million dollars worth of building since May 1 was ended by an agreement to put in effect a seventeen per cent wage reduction.—A Canadian Railway Commission orders a ten per cent reduction in railroad fares in east-ern Canada.—Owners of New York National and American League ball teams cooperating with police to stop gamb-ling at ball games.—The Standard Oil Company of New York announces a cent and a half reduction in the wholesale price of gasoline.

Friday, June 17.

HE new prohibition commissioner, Roy Haynes, promises a strict dry law enforcement, and asks public cooperation to accomplish it.—The pro-prietor of one of the largest dance in the country tells a convention of Episcopal clergymen that jazz music has the same effect on dancers as five big drinks of whiskey.-Mexico will resume payment of foreign debts on July 1, the national budget being increased for that purpose.—Representatives of the leading Trans-Atlan-tic lines confer with Washington offi-cials on immigration law. They claim it is ruinous to remain in the passenger business with this law in effect.— Italy approves the British plan to give the allied commission control over disturbed area of Silesia.

Saturday, June 18.

O NE gramme of radium was pur-chased by Belgium Red Cross in Colorado for one million francs.—Customs officials at Hoboken seize a quantity of machine guns and ammunition, believed to be destined for shipment to Ireland.—President Harding, on recommendation of Attorney-General Daugherty, declares contracts entered into for war department by former Secretary of War Baker to be null and ommendation Attorney-General void.—Women suffrage advocates in France call on Premier Briand asking his support of the suffrage movement. -The Scott bill lengthening the sea-son of navigation on the great lakes, and permitting use of fewer men on vessel crews making short trips, was passed by the house.—United States and Japan begin direct negotiations for the settlement of Yap, immigration and alien land questions.—The farm-ers' National Council favor closer cooperation with the labor forces, as suggested by labor President Gompers. -Bill is introduced in the house of representatives making the kidnapping of children a federal offence, punish-able by death.

Sunday, June 19.

GERMAN crop production is less than seventy per cent of pre-war average, according to the Prussian minister of agriculture.—The United minister States Shipping Board gets agreement between the factions in the marine workers' strike which calls for a fifteen per cent wage cut.—A proprietor of a New York hotel was arrested and fined \$400 for selling one glass of hard cider.—Otto H. Kahn, American bank-er, was decorated by French Premier Briand for his services to France during the war.—Reduction of fares from six to five cents is made by Detroit United Railway.—British coal miners vote to continue their strike.—Mary Lowe, a hundred and ten-year-old squaw, in Sioux City, Iowa, was 'ar-raigned in the Sioux City, Iowa, po-lice court on the charge of drunkenness.

Monday, June 20.

.a talk be ENERA fore national guardsmen, says the of fore hational guardsmen, says the illiteracy of the young men of this country is a disgrace.—President Hard-ing denies government employes Sat-urday half-holidays throughout the year.—Four were killed and twentyone hurt in interurban crash near Chel-sea, Michigan.—Mob in Georgia burn a negro alive for murdering a twelve-year-old girl.—Captain Amundsen and his crew have been rescued from huge ice floe in Arctice regions and are safe in Alaska.

Tuesday, June 21.

GGREAT BRITAIN is ready to list-en to America's plan for disarma-The open to America's plan for disarmative ment, notwithstanding the fact that her life depends absolutely upon her sea power.—Forty Turk launches load The sea power.—Forty Turk launches load-

THE MICHIGAN FARMER

More Dollars from the Pasture Lot A Little Care will Give a Longer Grazing Period and More Feed.

HERE are great opportunities in the improvement of unproductive permanent pasture land in Michigan, both in quality and quantity ties for the farmer who owns light soils, the nature of which are not ideal for the production of the common pasture grasses. It is probable that no neglected or mismanaged as has the upon it. Very few farmers apply lime to them, although in the majority of instances the soils are in need of it.

In numerous instances permanent conclusively, however, that its use un- rials can not be purchased convenientpastures in Michigan are not producing the quantity of forage they should, or in fact, could be made to yield. Es pecially is this true on the lighter soils and in case of those that are quite rolling where erosion or washing of the surface material by the rain has been extensive. Under such conditions the growth starts quite slowly in the spring which means a later turning in of 'the live stock and a shorter feeding period and in addition the scant growth means a decided reduction in the acre profit of the farm. Our investigations of the composition of the major soil types or kinds of soil in the state point out quite clearly the cause of such.

Nitrogen is Deficient in Many Pas-

ture Lands. A very important reason is the deficiency of nitrogen in the soil, which usually results in a rather scant growth of forage. This, then, becomes one of the important considerations in the fertilization of these lands. Nitrate of soda under such conditions may be used to decided advantage, especially when the prices of the same are more normal. In the use of nitrate of soda it should be applied early in the spring or just at the beginning. of growth. The applications should vary, depending upon the condition of the land, from fifty to one hundred pounds per acre. Usually such treatments result almost immediately in a great stimulation of the non-leguminous plants or such grasses as June grass, red-top or orchard grass and others.

However, if it is not possible to apply this material at this time it may be applied with decided advantage later on in the growing season. Its presence in addition to the stimulation of early growth also results in a marked increase in quantity of the product and also in the later development in the fall. Thus the acre value of the pasture may be appreciably higher. Where nitrate of soda was applied to permanent June grass sod in Eaton county just as growth started, this past spring, the grass was more than ten inches tall on May 10, due to the field at this time was less than four inches in length. Striking results are being obtained on a timothy meadow in Ingham county.

Ammonium sulphate may be used as a carrier of nitrogen for the stimulation of pasture lands, provided lime has been applied or is present in sufficient quantities in the soil. This material when used on acid or sour soils intensifies this condition and best results are not obtained from it until the in the row, although a better yield aim of the farmer as he goes over the lime situation has been taken care of. Otherwise it is a very good material from four to six inches apart. It the detrimental weeds, for this prac-

By C. C. McCool Prof. of Soils, M. A. C.

of forage produced and also in the in- quantities should be applied as in the best pastures in France are grown on troduction of permanent pastures on case of nitrate of soda. It should be those soils richest in phosphorus. many fields that are too hilly or to' recalled, however, that this material badly eroded to produce profitable is slightly slower in its action or to the soil as top-dressings it is usuyields of grain. There are possibili- should be applied to the land some- ally advisable to use the more soluble plication should be repeated after five what earlier than the above carrier. Some Soils Lack Sufficient Phos-

phates. other portion of the farm has been so revealed by our fertility investiga- added per acre the application should tions in the state is a quite common pasture land. In most cases no atten- deficiency in phosphorus, especially be advisable to add larger quantities tion is paid to the addition of plant the available material. It has been in some cases. The treble phosphate food further than that which is re- a long time considered that the addi- should be used in about one-third as turned while the animals are grazing tion of phosphates to soils lacking in large quantities as the sixteen per cent them results primarily in increased de- acid phosphate. velopment of the grain or fruit portion of the plant. It has been shown

Where the phosphates are applied or more readily available carriers, such as the acid phosphates or the treble phosphate. If two hundred and Another condition which has been fifty pounds or more of the former are endure for two years, although it may

> Mixed Fertilizers Used. Where the single fertilizing mate-



Sweet Clover May Prevent Erosion and Afford Much Pasture. This is Grow-ing on a Limestone Gravelly Hillside which Received no Treatment. This Crop Requires an Abundance of Lime; if Not Present in the Soil it Must be Applied.

der such conditions does more than ly mixed goods may be used with profthis, tremendously stimulating the it. Where the soils are quite poor, root development of plants and thus and especially on the lighter ones, a assisting in forming a good turf and mixture containing two or three per pasture land and also greatly augment- cent of ammonia, from eight to twelve ing the productions of the leaf and per cent of phosphoric acid and two stem portions of the crop. Instances to four per cent of potash may be used are numerous in Michigan where phos- at the rate of two hundred pounds or phorus has increased development of more per acre. On the somewhat beta great diversity of crops, especially ter lands the potash may be omitted early in the season. Thus we are safe and if it is desirable to maintain or to in stating that in the majority of cas- introduce clovers in the pasture, only es on depleted grazing lands it will be phosphoric acid and potash should be profitable.

addition of this plant food is known to an increase of grasses over legumes raise greatly the feeding value of the as has been brought out in numerous forage produced. In fact, it is main- places in this country as well as at tained by authorities that the most the famous Rothamsted Experiment nutritious pastures in England and the Station, England.

used. This is true because this addi-Another point to consider is that the tion of the nitrogen carrier results in

Hubam Clover Prospects

are very discouraging to the person essary to weed out the small grasses clover grow, there will, in all proba- clover will soon grow away from them bility be a good yield of seed if the once it has become well established. disheartened, plow up and devote the all do agree that vigorous, rapid growfield to other crops.

Michigan Agricultural College, a good be pulled. Blocking is not advisable. plants stand as far apart as one foot ten inches in the row should be the would result, no doubt, with the plants plot to thin the plants and to remove

TUBAM clover makes a very slow periment station and college who crop. growth during the first few have had the most to do with the culing weeds, such as foxtail, ragweed, According to Professor Cox, of the dock, quack grass, thistles, etc., should for use on such lands. About the same is the opinion of those of our own ex- tice will give the best results.

Lime can be used with profit on many pastures in Michigan, inasmuch as the majority of our soils are acid or sour in reaction. It may be applied in the form of pulverized limestone at the rate of one or more tons per acre, three or more cubic yards of marl, or as the sugar factory product. The apor more years. The lime may be applied at any time of year that the soil is sufficiently firm for the operation.

Reinforce Stable Manure with Phosphates.

Where stable manure is available, of course, it can be used to decided advantage for the improvement of pastures. The dressing usually should be light, reenforced with phosphate, and should be uniformly distributed over the land; but unless the vegetable matter of the soil is very deficient it is propably advisable to utilize the manure for the improvement of the cultivated land.

Sweet Clover is a Boon to Sandy Soils. The sandy land farmer usually has a great deal of difficulty in producing an ample amount of forage for grazing purposes to enable him to keep a proper number of live stock on his farm in order to have a well-balanced farm management system and to keep his soil in good condition. This is true because most of the grasses that are grown for pasture purposes are shallow rooted and consequently suffer very quickly from drouth when grown on light soils, the result being in many instances short pasture in mid-season at the time when ample quantities are very desirous.

This situation may be largely overcome by the growth of sweet clover on such lands. This crop is deep rooted and is very drouth-resistant and when the soil is properly handled produces large amounts of forage and accordingly will stand a great deal of grazing. Live stock experts report that this crop is very nutritious. When it is considered that it is a heavy yielder, is a crop that will stand heavy pasturing and also one that is nutritious, it seems that here are splendid opportunities for the farmer who decides to keep live stock on light soils. In many cases a seeding of this crop to the rolling and hilly lands will result in a decided advantage to the farm. In order to grow this crop certain conditions must be met. It should be distinctly understood that sweet clover is a lime-loving plant and if it is not present in sufficient quantities in the soil it must be added to it. Usually it is necessary to apply lime to establish sweet clover on our soils. There are some instances where gravelly slopes carry a high percentage of lime which will produce sweet clover. It is usually advisable to apply from onehalf to two tons per acre of pulverized limestone, or from three to five cubic yards of marl or similar quantities of sugar factory lime to the land for this

In addition our experiments in weeks of its development after ture of the crop in this state as well eral parts of Michigan show that the addition of the nitrate, whereas that which it grows unusually rapid. On as of those who introduced it into the addition of the acid phosphate is usugrowing on untreated portions of the many of the fields where the prospects northern districts, that it is not nec- ally desirable and where the soils are very light and quite badly run, or inwho has never seen this annual sweet and slender weeds, since the sweet fertile, that potash should be added also. Our experiments in Cass county on rather light soils show conclusively farmer does not become completely On the other hand, these authorities that the addition of forty or more pounds of potash per acre is desirable, although a fairly satisfactory growth of sweet clover can be obtained without the use of potash. If these seed yield can be expected where the One growing plant to every four to treatments are afforded the soil and some of the plants are permitted to form seed, usually this crop will reseed itself. It may be advisable to add additional small amounts to the land.

THE MICHIGAN FARMER

JUNE 25, 1921.

LATE AGRICULTURAL NEWS

HERE.

DROFESSOR HUGHES, of the agricultural college at Ames, Iowa, discoverer of the famous Hubam annual sweet clover, and Professor Peters, of the U.S. Department of Agriculture, were recently at farm bureau headquarters in Lansing inspecting test plats at M. A. C., set out by the farm bureau to determine which of all the good varieties of alfalfa seed brought in from the northwest are the very best for Michigan conditions. The visitors were very favorably impressed orderly marketing. with Michigan methods.

GRAIN MEN TO MEET.

MEETING of millers, elevator A men, farmers and insurance interests was called by Secretaries Hoover and Wallace to discuss the practicability of a plan for warehousing grain and making credit upon it more readily available. After much discussion in which the plan was opposed by the milling interests on the grounds that it would injure the mills at interior points remote from the terminal warehouses, a committee of the various interests represented was appoint ed to prepare recommendations.

Mr. Hoover's plan is to develop an adequate warehousing system under the present Lever act, whereby the farmer may receive warehouse receipts for his grain which would pass as an order for delivery. It was asserted that no legislation would be needed to carry out its provisions, in- Michigan Aberdeen-Angus Breeders' volving the grading of non-perishable Association drew bidders from all president Wyoming Wool Growers' As-

make the financing end of the proposibe insured and against the warehouse receipts another insurance policy would be written which would guarantee that the warehouse receipts represent products of a standard grade and would insure the owner of the receipts against any moral risks. Friends of the plan claim it would increase the farmer's borrowing capacity, and enable him to hold his grain and facilitate

Secretary Hoover says that under the plan projected, the country elevator would have the right to ship grain to the terminal elevator, delivering upon presentation of the certificate, at the terminal, grain of the same or of a higher grade. Freight and other charges would be deducted from the sale value. It is also contemplated that there should be some means of settling disagreements as to quantity, grade and quality, since the settlement between the farmer and country elevator must be absolute. It is believed this could be arranged through the submission of samples to the grade supervisor of the department of agriculture, or other nearby authority.

MICHIGAN STATE ABERDEEN-ANGUS SALE.

point was questioned by men who business. While the average price recould see a need for legislation to ceived was not high the consignors feel that the sale was a success as the tion effective. These products would primary object in holding a sale at this time was to put the cattle into the hands of beginners who could not buy during the reign of high prices. Each consignor had contributed a few head to help boost the breed and a great deal of credit is due these men for the support they are giving the breed.

Wildwood Farms had the top animal in both male and females. The top bull was Black Hero of Wildwood, selling for \$505 to Fred S. Smith, of Hart, Michigan. The top female was the senior heifer calf, Blackcap of Wildwood, sold to Thornhill Orchards, of Thompsonville, Michigan, at \$450. She was one of the nicest things offered from a Michigan herd in some time. Colonel John P. Hutton sold the cattle in his usual masterly fashion. The forty-four head sold for \$6,607.50, or at an average of \$150.17 per head.

URGE TRUTH-IN-FABRIC BILL.

A NUMBER of leading wool grow-ers, including representatives of the National Sheep and Wool Bureau of America, and several state wool growers' associations were in Washington, attending hearings on the truthin-fabric bill before a sub-committee of the interstate commerce committee of the senate, composed of Senators Watson, of Indiana, Townsend, of $T_{\rm East}$ Lansing, Michigan, by the lina. Among those appearing in delina. Among those appearing in defense of the bill are Dr. J. M. Wilson,

DISCOVERER OF HUBAM CLOVER them in bonded warehouses, but this of new breeders were started in the Ohio, president of the Fleece Wool States' Association, and George D. Briggs, of New York, who has charge of the wool growers' program before the committee.

> It was the contention of Gray Silver, Washington representative of the American Farm Bureau Federation, that "two-thirds of the woolen clothes manufactured are shoddy. This is true because only one-third new or virgin wool is used annually to mix with the two-thirds shoddy which is composed of old rags, cast-off worn clothing, waste and clippings. Yet the woolen garments usually are sold to the public as "all wool" which term is taken to mean virgin wool. It is this "all wool" alias or substitute for virgin wool which the French bill seeks to expose by requiring that fabrics purporting to contain wool shall be labeled to show the amount or percentage of virgin wool, shoddy, cotton or silk.

"The wool grower is not asking that shoddy be not used, but he does insist upon the manufacturer being required to pass his wool on to the public in honest form, labeled so the buyer may know what he is purchasing. Take away the virgin wool and the shoddy would not last long. At this time we have in this country about a billion pounds of wool and a new clip at hand. In normal years we cannot use more than 600,000,000 pounds, and it is the belief of the farmers that the buying public should have the benefit of this great supply of wool and that they should be able to buy properly labeled fabrics showing the amount of virgin wool they contain. The farmers think the passage of this bill is even products, such as grain, and storing parts of the state and a large number sociation; J. F. Walker, of Gambier, more important than a tariff on wool."

OUR SERVICE DEPARTMENT

EXTERMINATING QUACK GRASS.

Can you tell me how to get rid of quack grass?-A. J. C.

There are a number of ways to destroy quack grass, their practicability depending largely upon the amount that you have to destroy. If you only have a small patch of it, say a few feet square, it can be dug out with a grass hook, or, the patch can be smothered by covering it two or three feet deep with straw or coarse manure. Or, you can take building paper, weight it down with earth so that the wind will it does very little harm. not blow it away, in fact, anything that will prevent air getting to the plant, will smother it. It can be smothered another way and that is by cultivation. If you do not allow any living part of the plant to appear above ground, the plant smothers because a plant breathes through its leaves. Small patches can be attended to by up every living part of the plant after the milk stage and the crop is cured hoeing them carefully with a hand-hoe cultivation and do this once a week or, and taken care of similar to clover every time that any green leaves of perhaps, once in two weeks, for one hay.-C. C. L.

entirely exterminated in one season. You can plow the buckwheat early in September and sow to rye if you choose, and seed to clover with the assurance that there will not be enough of the quack grass left to interfere materially in the growth of the crop. In all probability, some of the plant will not be entirely destroyed and it will begin to appear and gain a foothold and after a year or two it may become troublesome again, when you can repeat the process. In this way, you can manage quack grass so that

You can raise any kind of tillage crop you choose, like corn or beans or sugar beets, on quack grass sod if you keep the quack grass down. For inthe plant appear above ground. If you entire season, you will certainly be

good clover hay, it ought to be cut before the heads all turn brown, in fact, when clover is in full bloom it contains the largest amount of digestive nutrients. Now, with peas and oats the principle is just exactly the same. Oat hay, if the plant is cut when the oats are in the milk, contains the largest percentage of digestive nutrients, that is the whole plant. You are not after grain, you are after digestible forage.

The same way with the pea plant. Just as soon as the pods are formed before the peas are really developed, is the proper time to cut this plant. Sometimes the pea plant and the oat are willing to give these crops such plant do not develop at exactly the thorough tillage as is necessary to same time and the best rule to go by is to cut the oat plant just as it is in stance, if after every cultivation you full bloom or as soon as you can therego through with a hand-hoe and hoe after. Do not let the berry get out of

Everybody understands that to have to be a very few cripples in a large incubator hatch, even when conditions are as ideal as possible. But when a large per cent are in that condition it means errors in incubation. The only remedy is to select eggs as fresh as possible from vigorous breeding stock and follow the directions of the incubator manufacturer very closely regarding the management of incubator. R. G. K.

HAY CROP FOR LIGHT SOIL.

I am plowing three acres that is mostly light sand. I have asked sev-eral farmers about it and some say one thing and some another. At Mid-land they told me that if I would put twenty pounds of vetch and one bush-el of oats to the acre any time this month, it would make good hay. Does that make good hay for horses; if not, what would you advise me to sow on the three acres to make hay? Does sand vetch make good cow feed? Midland Co. F. S.

Here at the station the past two years we have sown a mixture of two oushels of oats and twenty pounds of sand or hairy vetch per acre the latter part of April and the first of May, and have found it to be a very good hay crop. The hay is very readily eaten by either horses or cows. When sown later than the first week of May it has been our experience that the yield was much less than the early sowings. Consequently I would not recommend sowing oats and vetch at this late date. Believe you will secure better results by sowing twenty-five pounds of Sudan grass per acre. Sudan has

762-4

keep them cut off in this way for one master of the quack grass, if you have entire season the plant will be ex- not eradicated it entirely .-- C. C. L. terminated.

If you have quite a large field, or a whole field for instance, of course it costs a great deal to try to exterminate it by any of these methods that I have described. You could plow the field now, work it up good and the first of July seed it heavily to buckwheat. Buckwheat is a rapid grower and shades the ground thoroughly. This is a process of smothering and if you give careful preparation to the land and get a splendid stand of buck- ed which makes the plant unpalatable incubator has overheated at some pe- thy and should be cut for hay just

TIME TO CUT PEAS AND OATS FOR HAY.

At what stage should a mixture of oats and peas be cut for hay to get the best results for horse feed?—C. V. Like all crops intended for hay or forage, they should be harvested before the plants are ripe because as the plant approaches the ripening stage, a in the shell and there are a lot of cripgreat deal of woody fibre has develop- ples, it is often an indication that the about the same feeding value as timo-

CRIPPLED CHICKS.

The first fifty chicks hatched out in the incubator were smart and strong, and the rest hatched seemed to have no use of their legs, could just crawl no use of their legs, could just crawn along. Their legs were stiff and stuck straight out at each side. Also quite a number died in the shell, the eggs were pipped but the chicks did not have strength enough to get out. Can you tell me the cause of this trouble? -F. S.

When a large number of chicks die wheat the plant will be almost, if not and materially lessens its digestibility. riod during the hatch. There are apt after heading out.-C. R. MEGEE. JUNE 25, 1921.

THE MICHIGAN FARMER

Make the Skim-Milk Pay Valuable Food Nutrients Should Not be Wasted

By Russell A. Palmer

makes excellent feed for these ani- manufacture of cottage cheese is mals but it does not bring in actual profitable. cash to the farmer. How can this prodact be converted into ready cash? Several means to turn skim-milk into cash mento cheese. to compare with the manufacture of some form of skim-milk cheese.

work has shown that just as good rebe obtained in the modern cheese facis the extreme care that is exercised Allow the whole mixture to coagulate

C KIM-MILK has, in the past, been market in practically all groceries and regarded as a product only fit to meat markets at from ten to fifteen be fed to calves or hogs. True, it cents per pound. At this figure the

Another way of utilizing the skimmilk profitably is to make cream pi-This cheese requires have been tried but as yet none seem some manufactured products, such as rennet and artificial cheese coloring, in its making. To make this variety At the mention of manufacturing of cheese, take about thirty pounds of cheese the average farmer thinks im- skim-milk-care must be exercised to mediately of an elaborate factory with make sure that the milk is clean; if high-priced equipment. Such equip- any doubt exists it is best to pasteurment, although it makes the work eas- ize the milk-and bring it to a temier, is not essential. Experimental perature of about seventy-two degrees F. Add about half a pint of clean sour sults can be obtained on the farm, milk and mix it in thoroughly. Next with the equipment available, as can take two cubic centimeters of cheese color and mix it in thoroughly. After tory. The main reason for the good the color has been mixed in, add one reliable product of the cheese factory c. c. of rennet and mix it in well.



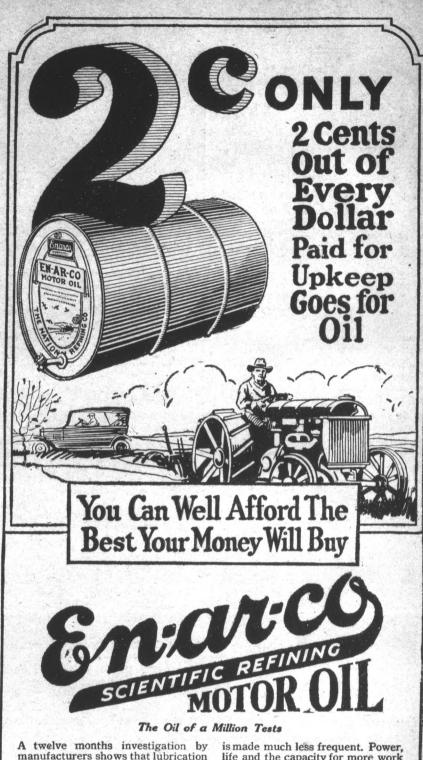
In these Days when Competition is Rapidly Growing Keener, it is Important that the Dairyman Study Carefully the Various Phases of His Business, to the End that Production Costs be Reduced to a Minimum and Receipts Increased to their Maximum.

in all operations. In other words, the overnight; the following morning turn tor in the production of good or inferior cheese.

best utilized in the production of either the cottage cheese or the so-called pimento cheese.

In the home manufacture of cottage product. It can then be placed in suitcheese the clean, wholesome skim- able containers or sold by the bulk. milk is placed in sterile containers and This variety of cheese is more profitremoved to a warm place, one about able than cottage cheese as it brings seventy-two degrees F., and left there from thirty to forty cents per pound. until it is well curdled. It usually re-The cream pimento cheese will keep quires about forty-eight hours for the a long time even though it is not placmilk to become well curdled. When ed on ice. However, both brands of the milk is well curdled it is broken cheese are much better if used immeup into small pieces of uniform size. diately or at least as soon as they are The broken curd is then placed on the thoroughly cooled. stove and brought up to about ninety degrees F. This heating process should GOGEBIC COUNTY AGENT GETS be very slow, taking from thirty to SUNFLOWER SEED. forty minutes. When the desired point, ninety degrees F., is reached the temperature is kept constant until the T^{HE} Gogebic County Farm Bureau is laying in a supply of the mamwhey appears clear. It requires about moth Russian variety of sunflower fifteen minutes for the whey to sep- seed, which will be distributed from arate from the curd. When the sep- its warehouse. The agent regards this aration is complete the whey is with- as superior for tonnage and feeding. drawn and the curd placed in muslin Mr. Gunderson has planned a farmers' sacks and allowed to drain. The curd, visiting day auto tour of the county for when thoroughly drained, is salted at late June, with a view to inspecting the rate of one pound of salt to one the best dairy farms of the county. hundred pounds of curd. If a better The latest report of the Gogebic Cowquality of product is desired, cream testing Association awards the maxishould be added to the drained curd mum production to the cow, "Antonat the rate of one ounce to each pound ette," with 1,788 pounds of milk, while of curd. This mixture is then salted a cow owned by C. E. Johnson yielded at the same rate as the plain cheese. 61.8 pounds of butter-fat in the thirty-The product, cottage cheese, is then day period covered by the report. The placed in some manufactured contain- list includes twenty cows with records ers or moulded into balls weighing one of more than forty pounds of butterpound and wrapped in oiled paper. In fat or 700 pounds of milk in the month this form cottage cheese finds a ready ending April 30, 1921.

human element is the controlling fac- the coagulated mixture, into muslin sacks and allow it to drain. When the curd has drained sufficiently, turn it Although some cheddar or American out of the sacks into a pan and mix cheese is made from skim-milk it is with salt and pepper to suit the taste. One small can of pimentos should then be ground fine and mixed into the cheese. This operation completes the



manufacturers shows that lubrication is the smallest item of upkeep expense. Think of it—only 2.01%.

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En-ar-co, by its super-lubricating qual-ities, its unvarying uniformity, its freedom from residue and carbon-forming substances, saves and pro-tects the motor to a degree that is almost unbelievable. Overhauling, repairing and replacement of parts

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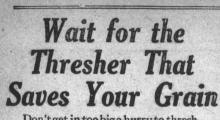
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THE MICHIGAN FARMER

LATE FARM BUREAU NEWS

WORK.

particularly in Wayne and Monroe counties where the husband and wife farm bureau membership plan has 27 are as follows: been adopted-the membership of the husband entitles his wife to an active Creek, Brooklyn and Perry. membership in the County Farm Bureau, according to action taken by those County Farm Bureaus, says Mrs. Edith M. Wagar, of Monroe county, ia, Concord and St. Johns. the woman member of the State Farm Bureau executive committee.

Mrs. Wagar has been urging similar action to other county farm bureaus of ville and Richland. the state when speaking before them. She is also urging farm women to take a more active interest in the State Farm Bureau and its work.

RELATIONSHIPS OF GRAIN GROW-ERS AND FARM BUREAU.

PRESIDENT NICOL, of the State Farm Bureau, represents Michigan at the conference of Midwest States' Farm Bureau presidents and secretaries that met at American Farm Bureau Federation headquarters in Chicago to consider problems of relationship between the American Farm Bureau Federation and the U.S. Grain Growers' Inc., the farmer-owned national cooperative grain marketing association launched as a result of the labors of the Farmers' Marketing Committee of Seventeen. Mr. Nicol is a member of the board of directors of the U.S. Grain Growers, Inc., also president of the Michigan State Farm Bureau Elevator Exchange Board of Control.

FRIDAY RECOMMENDED TO HEAD M. A. C.

 $\mathbf{A}_{\mathrm{ecutive\ committee\ of\ the\ Michigan}^{\mathrm{T}}$ the regular meeting of the executive committee of the Michigan State Farm Bureau, Prof. David Friday, of the University of Michigan, was recommended for the presidency of the Michigan Agricultural College to succeed President Frank S. Kedzie. The committee also passed a resolution of appreciation of the long years of indispensable service rendered the college by Dr. Kedzie, both as dean of the chemical department and as president and expressed the hope that his long years of experience may still continue to be available for council and guidance.

MANAGER UPPER PENINSULA BRANCH APPOINTED.

M^{R.} H. G. AMOS, former county agent in the upper peninsula, now located in the creamery business in ager of the proposed State 'Farm Buthe farm bureau will act as a clearing. reau affairs.

WOOL GRADING CONTINUES.

wool grading stations last week put to draw up the details of the arrangethe pool well along on its way to the ment with West Virginia. Their retwo million mark, said the wool de- port will be submitted to a conference partment at the close of the week. of farm bureau presidents and secre- prices for-coal never can be obtained Some idea of the task of accounting taries which meets in Chicago on June until coal production can be distribution for more than one million pounds of 20. Although the report is not yet ed more uniformly throughout the wool gathered and graded to date may complete, some of its provisions are: be gleaned from the fact that the wool That orders for coal so far as posgathered and graded to date may be sible be placed with operators located conference by J. I. Nicols, president gleaned from the fact that the wool on railroads, or routed with the trans- of the Michigan State Farm Bureau.

WOMEN ACTIVE IN FARM BUREAU department office works evenings right along and is now making preparations Kalamazoo. to expand its working quarters and W OMEN are taking an active part take on enough help to keep up with in State Farm Bureau affairs, the mass of figures that are tumbled

> in every day. Grading dates for the week of June

Monday.-Lakeview, Armada, Battle

Tuesday .--- Fremont, Saginaw, Butternut, Hanover and Lake Odessa.

Thursday.-Big Rapids, Merrill,

Clarksville, Springport and Fowler.

Saturday.-Barryton, Coleman and

REPRESENTATIVES of the De-partment of Transportation of the American Farm Bureau Federation appeared at the Interstate Commerce Commission hearing in Denver on June 1 and in Chicago on June 6 to present evidence showing why railroad rates Wednesday .- Hart, Chesaning, Ion- should be reduced. The hearings involved the rates on live stock in the western district. It was proposed that the commission remove the thirty-five Friday.-Barryton, Midland, Clarks- per cent general advance established August 26, 1920.

Farm Bureaus Plan Cooperative Coal Buying

their threshing and winter coal supply direct from the mines through a cooperative coal purchasing organization State Farm Bureaus and to their local Farm Bureau Federation. Preliminary plans to establish such an organiza- month for the succeeding month. tion were formulated at a meeting of representatives of the State Farm Bureaus of Minnesota, Michigan, Wisconsin, Iowa, Illinois, Indiana, Ohio and West Virginia held in Chicago June 13.

Easily one million tons and possibly five millions might be handled under the plan if its full possibilities were to be utilized. By avoiding one or more brokerage charges, reducing the freights by direct routing, and cutting local handling charges to an actual cost basis, substantial savings to farmers could be affected.

The conference was called by the American Farm Bureau Federation primarily to hear the details of a plan proposed by the West Virginia Federation which already is acting as the local agent in the purchase of coal being supplied to farm bureaus in Maryland, Virginia, the Carolinas and to a few counties in Wisconsin. Under this plan the West Virginia organization would make the contracts with the mine operators, obtain accurate analyses of heat value and ash of various coals, furnish inspectors to visit the mines from time to time and to see that the coal is being properly picked. cleaned, and screened while loading, and in the event of a car shortage to see that the just proportion of cars are allotted to farm bureau orders.

During the conference it was brought Manistique, has been appointed man- out that the states represented, notably Minnesota, Wisconsin, Iowa and purchase of coal from whatever sec- season.

tion the best value could be obtained. A cooperative coal buying commit-CONTINUED large receipts of wool tee was appointed to consider further at the various State Farm Bureau the feasibility of the entire plan and

ATE summer and fall may find portation company which will give the the organized farmers of the mid- cheapest freight rate to the delivery dle west striking a hard blow at point, except in cases in which a spethe high cost of heating by buying cial kind of coal or a special routing is requested.

That there be furnished the various under the auspices of the American organizations when requested, market quotations on the twenty-fifth of each

> That the State Farm Bureaus use a standard form of order blank and when orders are placed furnish each farm bureau with a duplicate copy of bill of lading and invoice.

> That an examination of all records by any authorized representative of the American Farm Bureau Federation be allowed upon presentation of proper credentials.

> That the State Farm Bureaus give publicity to and encourage their respective cooperative elevators, exchanges, farmers' clubs, and individuals to pool their orders for coal with their respective central organizations and furnish to these local groups quotations, order blanks and other plans and information which will help them in meeting their requirements for coal.

> That the State Farm Bureaus en. dorse and forward promptly to the purchasing agent in the state through which coal is purchased, all orders received by them from their local organizations or individuals.

> The committee is expected to investigate the price of coal from other fields to see whether midwest farmers can be provided with coal from other than West Virginia mines at a cheaper rate. The West Virginia quotation for the best grade of soft coal was \$3.50 per ton f. o. b. mines. Poorer grades from the same section ran as low as \$2.00.

Purchases would necessarily be for reau branch office for the upper penin- Illinois, use more coal from the south- cash with payment upon delivery so sula. He will take up his duties at ern Illinois field than from West Vir- far as the state and national organiza-Escanaba about Augst 1, it is reported. ginia, even though the latter produces tions were concerned. Local arrange-The upper peninsula branch offices of coal of a higher grade. This has been ments might be made, however, to especially true since the freight rates carry a supply of coal available to house for all upper peninsula farm bu- advanced. As a result, the tentative farmers unable or unwilling to take plans were broadened to include the their full requirements early in the

It was brought out that the coal trade confidently expects coal prices to tee was appointed to consider further advance after another eight or ten weeks when the fall demand starts so that it will be highly desirable to start: the project promptly and urge farmers to place their orders early; that low year.

Michigan was represented at this

CONFERENCE ON R. R. RATES.

OTHER STATES FOLLOW MICHI-IGAN IN BETTER CREAM CAMPAIGN.

S OME manufacturers of butter in other states are already buying cream on a graded basis, similar to that urged by the Michigan Association of Creamery Owners and Managers, the State Farm Bureau is advised. Last week the campaign which Michigan creamerymen have been waging in the interests of delivery of sweeter and higher quality cream for buttermaking purposes reached a climax in "Better Cream Week." Arrangements are already under way for consolidating the educational gains made by the week's demonstrations."

Manufacturers who have held it impracticable to grade cream and pay for it, are declared to be doing some serious thinking about this method of buying cream. Some weeks ago the market price for extra butter was thirty-two cents a pound in Chicago, and first-grade butter was selling for less than twenty-one cents a pound, says a Wisconsin authority. Some of the butter manufacturers who supply that market lost ten to twelve cents a pound on the butter-fat purchased, and the producer of high-grade cream was also a loser under the system of buying which does not take into consideration quality in cream.

The plan that Mjchigan creamery men hope to have working within the year would grade cream into two general classes—first and second—and make a difference of one to several cents per pound of butter-fat, depending upon which class the cream attained. Demonstrations on cream grading will continue at the various creameries, says the creamery association. The demonstrations are claimed to touch fifty thousand milk producers each week.

TO STUDY COMMUNITY MARKET-ING IN DETROIT.

A COMMITTEE composed of business men of Detroit, and farmers from nearby counties, is at work to determine the advisability of establishing a system of community markets, operated on a cost basis, in Detroit to expedite and cheapen movement of farm produce to city people.

The plan for the new marketing system was outlined generally at a meeting last week of the agricultural division of the Detroit Board of Commerce attended by about fifty business men of Detroit, leaders of farm organizations in Wayne, Monroe, Washtenaw, Oakland, Macomb and Lapeer counties, and leaders of the state federation of labor.

It was suggested that these markets would operate supplementary to, but apart from, the municipal Eastern and Western Markets in Detroit, which were established when Detroit was approximately one-fourth as large as it is today. The proposal, as discussed, was the establishment this summer of a community market on one of Detroit's main arteries of travel in a residential section, three or four miles at least from downtown. This would be to determine the advisability of expansion next year, including the establishment of small community markets on all of the main arteries of travel.



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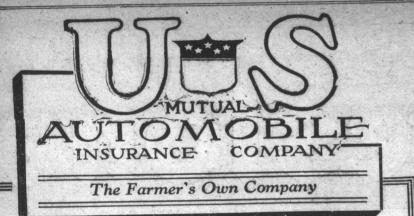
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News From Cloverland By L. A. Chase

SCENIC AUTO TRIPS THROUGH CLOVERLAND.

TOURISTS, let me state here, who. intend a trip through Cloverland this summer-and there are very many who do, according to the inquiries received at the Marquette office of the Upper Peninsula Development Bureau -should understand that frequently the most attractive camp-sites, and points of scenic beauty and for fishing, do not lie directly on the main trunk-line routes, but, like Eagle Harbor and Copper Harbor, are at the dead end of the highway. The extremity of the Keweenaw Peninsula, reached along Highway No. 15, is one of the most beautiful regions in Michigan, rugged and wild, an old, abandoned mining country. There are rocks, lakes, waterfalls, trout streams, extensive second-growth woodlands, and Lake Superior, with its sometimes magnificent shore-line, on either side. Or take the Skanee district east of Huron Bay, reached by way of L'Anse, and the Huron Mountain country beyond it. The falls of the Au Train in Alger county, are close to the main road to Munising, but none would tory of the county, collect biographical guess their presence, if uninstructed. The river tumbles over a steep limestone slope, where the Cleveland-Cliffs Iron Company has a power development. The gorge below is beautiful, and a flood of delicious spring water pours out of the limestone cliffs at its side, affording an ideal situation for a camp-site, and this is provided. There are many other such points known to residents, which the piker will not want to miss, if he cares for the beauties of nature rather than seeing how many miles he can get over in a day with damage to his nervous system and pocket-book and nothing to show for it.

FISH IN CLOVERLAND.

THE New Englanders used to speak of the ocean as their "farm," and the same may equally be said of the upper great lakes. As a farm which can be worked in the winter, as it is now often worked, lakes Superior Michigan and Huron offer real opportunities for making a good living, and the Michigan Fish Commission in one of its former reports is responsible for the statement that an acre of water will produce more than an acre of land. It must be said, however, that with the lakes, as with the land, their natural productivity is diminishing, and require replenishment. That is the reason for the demand for a new and enlarged hatchery at Sault Ste. Marie either on Michigan's own account or in association with the adjacent province of Ontario, Canada.

The time was when Lake Superior whitefish cost two and a half to five cents per pound. Indeed, there was a a saw-mill in the spring to provide time when the Indians caught them lumber for the ranch. Logs are now with their hands in the rapids at the ready for sawing. Eventually tame Soo. It is not like that now, and it is grasses will be sown on cleared land. hoped that the fish commission, or the new conservation commission will do regard brushing the land and sowing. the trick that will help to restock our of tame grasses as a pre-requisite to depleted fish supplies in the great success in ranching in this country. lakes and interior waters. With this He states that native woods grasses in view one hears little local opposi- have less fattening qualities than tame tion to the proposed rod license law varieties. He insists that it is as easy for domestic fishermen, when the returns are to go to the propagation of ern range. It is a problem of shelter, a new fish supply for Michigan. One but material for constructing shelters fish commissioner referred enthusias- is amply at hand. But ventilation and tically to the new fish hatchery in out-door life and exercise are essenprocess of erection at Manistique on the finest in the world, he says, and than import them for fattening from and other varieties. Meanwhile the handle the Hereford breed of cattle.

Upper Peninsula Development Bureau, with the assistance of Dr. John Lowe, professor of biology in the Northern State Normal School at Marquette, is making a survey of the fish resources of the waters in and adjacent to the northern peninsula. Dr. Lowe is on most friendly and intimate terms with local commercial fishermen, and is afforded every opportunity by them for learning what he can of our fish resources.

U. P. HISTORICAL SOCIETIES ACTIVE.

N recognition of the fact that Gogebic county is "grown up," as Dr. Sigurd Nelson, of Ironwood, expressed it, a county historical society was organized last winter. There are already similar organizations in the copper country, Marquette, Delta, Menominee, Chippewa and a few other counties north of the Straits-some of them the most active and well supported in the state in the judgment of the Michigan Historical Commission. It is proper work for such a society to preserve books and records relating to the hismaterial, hold meetings at which papers on historical subjects are read, place markers at points of historic interest in the county, and to cooperate with the Michigan Historical Commission in whatever will promote local historical study and interest. Some large collections of local historical material have already been built up in northern Michigan counties, notably in the copper country and Marquette county, with donations and funds gathered in from membership dues and other sources. Gogebic is a large and important mining and agricultural and mining county. Its mining development is less than a half-century old, but much has transpired there that ought to be permanently recorded, and the inauguration of this latest historical society in Cloverland is very commendable.

CLOVERLAND RANCHING.

OADING pens for several thousand head of cattle and a transfer line between the Chicago, Milwaukee & St. Paul Railway and the Chicago & Northwestern, are being installed for the use of the Triangle Rranch near Amasa, Iron county. Ranch No. 1 has some 1,400 acres of tillable land and meadows to furnish feed for the stock of the ranch, it is stated. Roads into the ranch and fourteen miles of fencing have been built during the past season, and material for twenty miles of additional fencing has been assembled, is the report. Several camp buildings are up and others in the process of erection. It is said to be the purpose of the owners to construct of the ranch is said to The manage to winter cattle here as on the westtial, he says. He also believes it is the Lake Michigan shore, to be one of better to breed and raise cattle here which will yield perch, bass, blue-gills the western range. The company will





Some rural communities have the convenience of getting their reading from rural library wagons.

and the

A search manager of a Tuby and shares

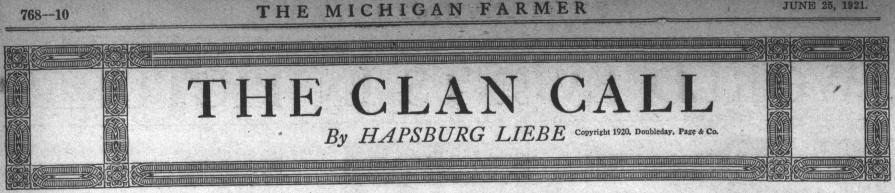
St.



The Chinese are friendly to American missionaries, and place great confidence in them.

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4



feel like talking. Let's see, you gave man whose bullet finished Ball, be- against the iron, and smiled. your man Hayes orders to carry the had happened, didn't you? And the sheriff is to go back the day after tomorrow to arrest two or three Balls and two or three Torreys, to see what he can find out concerning the dyna- am sure of that, major." miting of the two buildings and the trestle-today was not a good time to make the arrests. Am I correct?"

"Correct," nodded Dale. Bradley regarded his cigar thought-

fully. "Now," he said in a low tone, sud-

denly lifting his gaze to the other's "tell me about the thing that face. brought you here. Don't omit even the slightest detail. Nobody can overhear you if you will hold your voice down. These walls are very thick, you see. Well, you may bgin."

In carefully guarded tones, Bill Dale gave a straightforward account of the whole unfortunate occurrence. The major listened intently to every word of it, so intently that he allowed his cigar to go out. Often he stopped his client and asked him to repeat certain portions of the story in order that he might be doubly sure of a point. Dale's cigar, too, was black and cold long before he had finished.

As Major Bradley rose to ask the jailer to come and let him out, Dale muttered downheartedly:

"Tell me, major: what do you think of my case? It looks rather bad, doesn't it?"

"Not bad enough to warrant your feeling blue over it, my boy!" said Bradley, showing his polished white teeth in a smile that was meant to be reassuring. "I think we'll get you out of it. Anyway, don't worry about it. Worry will kill a cat, they say! You didn't kill Adam Ball. John Moreland had taught you how to shoot pretty well; and if you took even half as careful an aim as you think you did, you couldn't have missed Ball's hat by so much.

"I have an idea, Dale," he resumed, shot we'd know who did for Ball. It might have been done in order to save you. Ball was noted, I understand, as an unfair and tricky fighter. He might have been trying to trick you when he rose and fell groaning. Perhaps he head up and his shoulders back, a meant to draw you into the open, that he might have a clean shot at you. Eh?'

Dale shook his head gloomily.

"Now, sir," said the old lawyer, "I event there was nothing against the smoothly cause he did it to save me; and he my arrest. A man who liked me well enough to kill Ball to save my life and save me from suffering for it. I you doing here, Cale?"

"Ah, my boy," smiled the older of Caleb Moreland. the two," you don't yet know the mountain heart. Jail is a terrible thing to is impossible, Cale. How could you the liberty-loving mountaineer. But set me free?" love of you, and love of fair-dealing, will soon overcome the fear of jail, and you will be freed-if what I very strongly suspect proves to be well founded. I'll leave you now, Dale. I'll see you in the morning, sir. Goodnight!"

When his optimistic attorney had gone, Dale glanced once more at the to him miserable line from Dante's "Inferno," and began to remove his outer clothing preparatory to going to bed. He did not feel anything like so confident concerning the outcome of his trial as Major Bradley evidently felt. Then he became even more dejected, and he told himself that the major had spoken reassuringly merely to help him keep up heart.

The night passed, and another bright summer day dawned, and in the Cartersville jail there was one prisoned who had not slept at all. Each of those long and heavy black hours had been an age to this prisoner to whom jail was so new.

At noon a furious windstorm, accompanied by much vivid lightning and blinding rain, sprang out of the west and began to sweep the countryside, and out of the lowering wet gloom there came one to deliver Bill Dale. He was a mountaineer, young and stalwart and strong, and about him there was much of that certain English fineness that was so striking in his father.

He entered the low, square building of brick and stone and stopped in the center of the corridor, where he stood, while water ran from his wet clothing "that if we knew who fired that third and gathered in little pools at his feet, and looked to his right and to his left. Dale saw him, and cried out in surprise:

"Caleb!" Caleb Moreland walked straight, his splendid picture of virile young manhood, to the end of the corridor. He gripped two of the door's hated bars, "Hardly plausible, major. In that by other human hands; he pressed his A man can awful easy talk his fool front porch and in the cabin yard. At

shaven, sunburned face

"How are ye a-feelin' by this time, work right along as though nothing would have owned to it and prevented Bill? It's some hell of a place, ain't it, now?

Dale took a step toward him. "Well, would like me well enough to confess a queen's boudoir is nicer. What are

"I've come to set you free," said Dale stared unbelievingly. "But that

"Call Tom Flowers, and I'll sight

ye." From the door of his office, Sheriff Flowers had been silently watching the mountaineer. Dale called, and the officer came immediately. Caleb Moreland turned from the cell door and faced him.

"I've come here to own up to the killin' o' Black Adam Ball," began the young hillman.

He swallowed, went a trifle pale under his tan, and continued bravely:

"Bill Dale thar, he never done it. I am the one 'at done it. Bill he shot at Adam, but he missed-Adam had done shot at Bill fust, y'onderstand, Tom. But I didn't miss. I don't never miss. I'm a plumb tombstone shot. They allus rules me out at any shootin' match. I'd ha' owned up to it yeste'day, but the thought o' jail had me skeered bad. I jest cain't let as good a man as Bill Dale thar suffer fo' a thing I done myself. So you let him out, Tom, and put the right man in

thar." Flowers had a good heart, and this touched it. But he was not very much surprised.

"Tell us about it, Caleb," he requested.

Caleb looked toward Dale, then he faced the lord of Cartersville's little prison again.

"Well, shuriff, when I seed Bill Dale go off toward the trustle by hisself and alone, I knowed right then he was in danger o' bein' laywayed by some o' them thar lowndown Balls and Cherokee Torreys. So I decides to foller atter him and gyard him, without him a-knowin' anything about it, which same I done. When he met Adam Ball-

He broke off abruptly. There was a rather shrewd twinkle in his clear grey eyes.

"Go on," urged Flowers.

"I reckon I won't," smiled Caleb, and his eyes were still twinkling. "I reckbars that had long been worn smooth on I won't do no more talkin' jest now.

head off, ye see; pap allus said more men had been hung by their mouths 'an by any other way. Yes, I reckon the proper place fo' me to do my big talkin' is in the 'co'te-house at my trial. Lock me up, will ye, Tom?"

JUNE 25, 1921.

"We'll see," said Flowers. Forthwith he despatched a deputy

for Judge Carter and Major Bradley, who hastened to the jail.

An hour later Caleb Moreland was the occupant of the cell at the end of the whitewashed corridor, and Dale was mounting his bay horse Fox to ride back into the heart of the everlasting hills. The rain had gone as quickly as it had come, and the skies were once more blue and bright. Everywhere there was the lazy droning of wild bees and the sweet odor of honeysuckles.

He arrived two hours after nightfall. The Morelands were glad to see him, and the Littlefords were glad to see him. There was rejoicing there in the broad valley that lies between David Moreland's Mountain and the Big Pine. Everybody had been expecting him, and many were the pairs of eyes that had been watching for him. He found himself suddenly wishing, with a tightening at his throat, that his father could know how much bigger and how much better it was to be thus esteemed than to be wealthy.

Luke took charge of his tired horse and led it away to the old log barn and to some fifteen ears of yellow corn. Luke's father then escorted him proudly, the guest of honor, in to one of Addie Moreland's incomparable oldfashioned suppers, which was none the worse for being late. Several Littlefords sat at the long, home-made table. John Moreland turned up the light a little, and cracked a worn but timely joke; then he looked toward one of the men whom he had fought throughout many years, and muttered into his thick brown beard:

"Saul, friend, will ye do us the favor o' axin' the blessin,' ef ye please?" "Shore, John, o' course."

Saul Littleford, the very illiterate, laced his big fingers together across his plate, bent his head, and told the good Almighty that they were all very much obliged to Him for the fine supper they had before them, for Addie Moreland who had cooked it, for peace, and for Bill Dale.

It was almost midnight when the visitors left. They had been sitting outside, on the honeysuckle-scented

-By Frank R. Leet

AL ACRES-Al is Attacked by an Old Enemy, But Saves the Flag.

WELL ANYHOW GUESS I'LLA (!*)-NOPE! BOUGHT THIS FOR THE FRONT PORCH (AL?) 3 WE LICKED YOUR TAKE THE SHORT JONES NAMESAKEIN CUT HOME '76 LATER TO THE VILLAGE FOR SC FOURTH' DECORATIONS 2

last Bill Dale and John Moreland were left together on the porch.

"There's a thing that has puzzled me since the moment I got here this evening," said Dale, after a little period of silence save for the faraway baying of a hound, the lonesome cry of an owl, and the gentle murmur of Doe River the beautiful. "Why is it that nobody seems to be grieving over Caleb's being in jail?"

The big hillman's answer came almost sharply: "No Moreland ever grieves over a sacrifice, Bill." Dale sat up straight. "A sacrifice!

What do you mean?" This time the big hillman's answer

came slowly. "I mean 'at Cale he's a-takin' all o' the load off o' yore shoulders /'at he can. Cale he's a takin' yor place in jail ontel the trial comes off, which'll be at the October term o' co'te. He trusts you to come back and set him free on the day o' the trial. O' course you'll do it; we hain't never doubted that fo' one little minute, Bill. But it wasn't all done fo' yo're sake. You're the hope o' the Morelands, and you can do a heap more here 'an Caleb ean.'

He leaned toward Bill Dale and went in a confidential tone:

"And I can tell ye this here: ef you are found guilty o' killin' Adam Ball, and sentenced fo' even one year, the Morelands and the Littlfords is a-goin' to take ye from the officers and turn ye loose with a good, long start on the law."

"Wouldn't that be rather-"

Dale broke off because he had seen the tall figure of a man appear in the open gateway. It was By Hck, and he spoke.

"Hello, John Moreland "

"Hello yeself!" growled Moreland, who was not at all pleased at the interruption.

Heck advanced, carrying his rifle by its muzzle. He halted with one foot on the stone step.

"I've got news fo' ye, Bill," he said, recognizing Dale even in the darkness. "I've been a-eavesdrappin' up at old Ball's house, and I had to choke about ten dawgs to death to do it. All o' my fingernails is tangled up wi' dawg-hair. Bill, old boy, them Balls has done swore by everything on earth and in Heaven and in Torment 'at they'll kill you ef the law don't. And them lowdown Cherokee Torreys is all with the Balls. Igo, ye'd better watch out, Bill."

John Moreland rose from his chair. "Much obleeged to ye, By. And goodnight to ye. Le's go into the house, Bill. I didn't think them polecats had had that much narve-and I don't hardly believe it yit. It might ha' been white licker a-talkin'. Their kind o' white licker ain't hawnest, like By Heck's is, though his'n is bad enough. Their kind'll make a man resurrect his dead inemies out o' the graveyard and shoot 'em up all over ag'in. It ain't a-goin' to do a great deal o' harm, Bill, ef ye don't light no lamp when ye go to bed. A man cain't never tell jest what's a-goin' to happen."

"And the Ball-Torrey outfit-" Dale began, when the Moreland chief cut in:

"Ef the Ball-Torrey outfit pesters you, they're every one purty durned apt to die with what is knowed gen-'ally in this section as the rifle-bullet disease.

(Continued next week).

DEFLATION.

An indication that we are going through a period of deflation: A Philadelphia undertaker advertises that funeral prices are lower an offers to make many money-saving suggestions.

ECONOMY.

The men who invented pickled pigs' feet and ox-tail soup were undoubtedly trying to make ends meat.

Box 525,



THE MICHIGAN FARMER

11-769

14 to 17.

Crisp-Delicious-No Waste "There's a Reason" for Grape=Nuts Send No Money Just name dress, Pay

air-tight packet for breakfast or lunch.



None is poor but the mean in mind, the timorous, the weak, the unbelieving. None is wealthy but the affluent in soul, who is satisfied and floweth over. - Tupper.

Woman's Interests

Eliminate the Fly in Its Breeding Place

By D. B. Whelan

basement and started to flood your celpossibly stop them?

The thing to do first, is to find out where they are breeding and then either dispose of it or else fill those that are propagating there. After that is done you can swat them if you wish, or apply other remedies that are better. Of course, if a few flies are bothersome by all means swat them if need be, but don't try to rid the entire house in this manner. If you spent all of your time doing this and nothing else, you could not kill the progeny of one pair of flies, to say nothing of the tens of thousands that are breeding in many places on the farm.

To begin with, there are at least eight generations of flies in this latitude. At the end of a month one fly will have given rise to many millions of progeny, while at the end of the summer the number of offspring will

great number can be exterminated in eggs at a time and as she has been izer purposes. this manner, but it is hardly worth observed to make four deposits we while. If a waterpipe burst in your conclude that a single fly is capable of laying six hundred eggs. But to be lar you would not start to bale it out. real conservative, we will say that a The first thing you would do wold be fly lays an average of just one hunto stop the leak, and then set about dred eggs. When these hatch and ridding the basement of water. So reach maturity we will assume that why resort to swatting the fly when half of them are males and half fethey are breeding faster than you can males, which gives us at the end of the first generation just fifty egg-laying females. At this rate there will be produced at the end of the eighth generation, about 1,875,000,000,000 adult flies.

> Now if some real ambitious person would undertake the job of killing these flies with a fly-swatter he would find quite a job ahead of him. If he would kill them at the rate of one ev-



The Cold-pack Method will Preserve Roasting Ears for Next Winter.

ery fifteen seconds, or four a minute, working for twenty-four hours a day he would have taken the lives of 5,760 as a day's work, while at the end of a farm. Miss Smith has toured the state, year his record would be 2,102,400 meeting with groups of women in each flies. But this only gets rid of the pro- county and explaining the system of geny of one pair of flies. Think of the keeping farm accounts. Account books vast numbers that are present early in issued by the department are sold at he season and if each of these are as a nominal cost, with cards to tabulate prolfic as the one just mentioned, it the daily income and outgo from the would be an endless job. The uselessness of swatting flies is ties added many ideas to those advancthen very apparent and should not be ed by the college leaders. depended upon alone. Stop the leak at its source. Kill the flies where they breed. The earlier they are exterminated the fewer there will be to contend with later and every week's delay be otherwise disposed of, can be treat- Mrs. W. B. S.

O kill flies by "swatting" is very be unbelievable. It is well known that ed with chemicals that will extermislow work and poor efficiency, to a female fly may deposit one hundred nate the maggots and at the same time say the least. It is true that a and twenty to one hundred and fifty will not injure the manure for fertil-

ROASTING EARS IN MID-WINTER.

 $\mathbf{T}^{\mathrm{HAT}}$ sounds good, and here is how you may have them, almost as nice and fresh as the day they were picked. Gather the ears the same day they are to be canned. Remove all husk and silk, then put in boiling water and cook for ten minutes. Next blanch by immersing in cold water for several minutes. Use half gallon fruit jars, fill them as full as possible with the ears of corn, then finish filling them by pouring in cold water. To each half-gallon of the canned roasting ears add two teaspoonfuls of salt. Now put on the rubbers and lids and screw down as tight as possible with the hand, place them in the boiler with enough cold water to cover the lids, and after the water is brought to the boiling point continue to keep it boiling for three hours, then take a cap wrench and screw the lids down perfectly tight.

When the roasting ears are to be served remove from the can, place in a bread pan and set in the oven until warm, then serve with seasoning to suit the taste. This is a thoroughly tried recipe. We have used it in our home for two years.—J. C. B.

MICHIGAN FARM WOMEN WILL KEEP ACCOUNTS.

WHEN the fall crops are harvested in 1921 a larger percentage of Michigan farmers than usual is going to know whether farming is a paying or a losing game. Thanks to a campaign put on this spring by Miss Edna V. Smith, household management specialist of the Michigan Agricultural College, groups of women in twentytwo counties have started a rigid keeping of accounts.

The idea is backed by the state grange and extension department cooperating, with an eye not only to showing farm folks how to figure costs and profits-or losses-but to bring to their attention what a larger. proportion of their living they get from the

Gombault's Caustic Balsam The Standard Remedy

Human and Veterinary

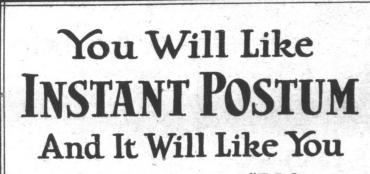
As a veterinary remedy its curative qualities have been acknowledged for many years in cases of Curb, Splint. Sweeny, Capped Hock, Strained Tendons, Spavin, Ringbone and other bony tumors.

A Perfect Antiseptic

Soothing and Healing For treatment of Rheumatism, Sprains, Neuralgia, Lumbago, Sore Throat, Stiff Joints, Cuts and Bruises it is invaluable. \$1.75 per bottle at druggists, or sent by parcel post on receipt of price. The Lawrence-Williams Co., Cleveland, O.



Trained American Fox Hounds Rabbit and Skunk dogs all ages. Send stamp. W. E. LECKY, Holmesville, Ohio



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POSTOM CEREAL POSTUM BEVERAGE portion of P Cereal C

farm. - The women in the various coun-

GOOD MOLASSES COOKIES.

If a real thin molasses cookie is desired, let the dough stand for several means just so many more to be taken hours, or even over night, before rollcare of later on. Protect the garbage ing out and cutting. The dough will and other refuse from the flies and then have become firm and solid and give them no chance to come in con- can be rolled out very thin. Cookies tact with it. The manure, if it cannot thus made can be kept a long time .--

Strong Men Wanted Our Weekly Sermon-By N. A. McCune

N the third chapter of Ephesians, Now in all this we are to be rootstrong men. He offers a prayer, one of the most wonderful prayers ever uttered, asking that the Christians Otherwise it could not stand. Watch to whom he is writing may be an elm battling with a winter storm. "strengthened with power." Now the The roots are on duty. Like sailors word power as used here has the same meaning as we get from the words termined they shall not be vanquished. dynamo and dynamite. It is to be vital power, mighty power, explosive power, that these people are to have. At least that kind of power is within if they do not get it. Look at the waves of Lake Michigan, as they roll toward the shore. It is done with ease and rush, and yet there is force there, as the swimmer knows. Look at the rain.' It comes as easily as you'talk, but the weight of a single shower runs. into the thousands of tons.

This strength, says the apostle, is to come to us through the Spirit of God. People are afraid of the Spirit. They fear that if they talk much about it they will become too pious. They have known queer people who talked a good deal about the Holy Spirit. But opened to the public and today thouthere is nothing to fear. The Spirit is simply God in action. We know more about the operations of the Spirit now than we did a few years ago. We now know that the man who allows the Spirit of God to function through him is going to be a happier man, a more efficient man, a healthier man, and a better man, than the one who does not. It is God working in us.

Some day go to the town or town-ship library and get the life of William Wilberforce. William Wilberforce was a hunchback. He was as small and distorted and shrivelled a man as ever was elected to the British Parliament. He had a squeaky voice. Yet no man was more listened to, and no man accomplished more in his time than Wilberforce. He was the man who brought about the liberation of all slaves in the British Empire. How did he do it? The only answer I know is, that early in life he met God, and for forty years he tried daily to let God energize through him, and accomplish his own good purposes.

The seat of the Spirit in us is the "inward man." That is, the conscience or the soul. Education often stresses the cultivation of the brain, and athletics the development of the body. Both these are vital. But a man may be educated and be a villain. He may be a giant and be nothing more than a professional weight-lifter. But when the soul is changed, the whole man is affected, mind and body, will and spirit.

A ND Paul goes on to state that the object of all this is, that Christ shall "dwell in our hearth through faith." There is a great difference between a hunter and a settler. A hunt- men. They have God in their souls. er stays over night. He builds a fire, Without them the world would putresleeps in his tent, and is gone in a day fy, or dry up with the dry rot of selfor two. But the settler does not do sufficiency. A saint is a strong man, that way. He comes and stays. He and that is the company we are to brings his axe and plow, his team, his cow, his chickens and above all, his There is no excuse for weakness. family. He cuts a hole in the forest and plants some crops. He has come passed the bank. On the window it to stay. Now, Christ's home is in the said the capital was half a million. I soul. Many will not have him, but that is where He loves to stay. And like that would have such a capital. He wants to stay there, not as a visitor, but as a settler. He comes as a branch of a large bank in the city. friend and as Lord. A primeval un- That is the way with us all. We may broken forest is beautiful. But a set- be branches of the great Vine, and so tled region, with farms and browsing draw on the great capital that is there cattle and schoolhouses and children stored up. is more beautiful. Just so, the soul ought to be a more beautiful place after, Christ has dwelt there than it was when first he entered.

St. Paul has much to say about ed and grounded in love." This is comparing the whole matter with trees and buildings. A tree is well rooted. called to the pumps, the roots are de-They seem to say to the wind, "Come The limbs writhe and leap beon." neath the force of the wind, but the tree stands. It is deeply rooted. Turn their reach, and it will be a great pity to the building. Once I passed for many weeks a corner where an office building was to be built. I thought they would never stop digging. For days the steam shovel dug and dug. Then came quicksand and they must go deeper. The excavation looked more like the mouth of a mine than the foundation of a building. But at last they began to build. Basement, one story, two, four, six, ten, twelve, sixteen stories. The building did not lean. One side did not crack. It stood as straight and proud as the heart of its architect. One day it was sands press into its elevators every day. It went down deep so that it might go up high. "Rooted and grounded." St. Paul says we are to be rooted and grounded in love.

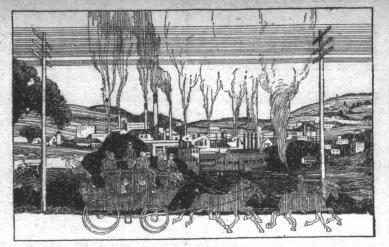
> NOW everyone knows what love is. It is not necessary to explain that. The little boy who puts his arms around mother's neck knows what it is. We all know what it is. And that is the secret of Christianity-love. Mark you, the Bible is accurate. There are two different words for love in the New Testament. One means to love, as husband or wife, or two very close friends. The other means to have utmost good will for people, to want to do them good. That is the word used here. We are to be rooted and grounded in abundant, overflowing goodwill toward people.

> The passage closes with the hope that we shall be strong enough to understand as the saints do, about the will of God. Most folk do not count the saints as very strong. Saints are supposed to be weak, watery beings. But Paul figures that one must be a soldier with a real stride if he is to keep step with the saints. That will be a new idea to some people. But, look at one or two of them. Elijah is a saint, and he battles single-handed with four hundred fanatical heathen priests. Would you call him a strong man? Jeremiah tells his nation it is going to hell, and going fast. He suffers imprisonment and shame. Shall we label him saint and strong man? I stood one day where Savanarola was burned to death-and I took off my hat. Savanarola was also saint and strong man. O, there is an army of them. They are big fellows, mighty

> travel in. We, too, are to be strong. One day I was in a village, and I

> could not believe that a small bank Then I read below that this bank was

> Milk is so constituted as to correct the deficiencies of other foods when used in combination with them.



"... places far apart are brought logether, to the present convenience and of the Public and to the certain destruction, in time, of a host of petty blindnesses and prejudices, by which the Public alone have always been the From Charles Dickens' Preface to Pickwi

The Advance of Understanding

Even romance of sixty brief years ago could not imagine the great advance heralded by the passing of the stage coach. The railway and telegraph were coming into their own; but the telephone had not been so much as dreamed about.

Yet the wise men of that day saw the imperative need. They saw the value of every step which brought people into closer communication with each other. They knew this to be the one way to increase

understanding; and to eliminate the "host of petty jealousies, blindnesses and prejudices, by which the Public alone have always been the sufferers.'

Then came the telephone. And with its coming time and distance are swept away and a hundred million people are made neighbors.

Places far apart are brought together by 34,-000,000 conversations a day over the Bell System.

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THE MICHIGAN FARMER

JUNE 25, 1921.



Our Boys' and Girls' Page Success that is Success

Things Worth Working For by Boys and Girls By Edgar L. Vincent

boy or girl who does not, in his higher toward your goal.

heart of hearts, want to win out in the things that count for most. A have their influence-and it is a shoe string is a pretty poor sort of a mighty influence, too-in working out thing to depend upon, but it is a steel true success. The book or the paper cable compared to a young man or woman who has no big dream of success in some line or other.

day what, in their opinion, is the great- forecast his future for him, est need of the times, and ninety-nine of them will tell you, "We need men -good men, and women, women that can and will do everything they undertake, right." The one-hundredth man no doubt would say, "We need men with lots of money. Men of means can do everything." With these men, "money makes the mare go." But while the mare is going, the money is usually going, too, and pretty fast; for the man who depends solely on his money to win him success will not win any success that is worth winning.

What, then, is success that is success? Shall we leave the money entirely out of the question? Is it not a help in life? It surely is. The man who would say otherwise would not be speaking the truth. We need money. Primarily, our efforts in this world are directed toward the acquirement of money or something that can be turned into money. As the social world goes, money is a power. But it is not the highest good in life. Back of the money must be the determination to use what we get wisely and for the best good of ourselves, of those who are dear to us and of mankind.

Now, it is success to become a good farmer. A boy told me the other day that many thought he was a fool for quitting school and going to work on a farm. "But," he added, "I am learning every day. I will get to be as good an all-round farmer right here on the farm, so that I know as much about how to do farm work as I would if I went to school. I can't go to an agricultural school now, but I can learn as I earn."

ciples and it will, if put into practice, Nitt. bring success as a farmer.

It is success to be an interested, upor a sheep club or a poultry club or any kind of a club that is working for the betterment of any of the farm creatures. A boy or girl may put the very best there is in him or her into his work in any of these lines. All that is done to develop the finer qualities of the cows or the hogs or the sheep has a tremendous value in working out for the young person thus engaged a character worth more than all the money that could be stacked up under the blue dome of heaven. Character counts, for character teaches the venna, and Miss E. W. Palson, of Hol-

* HE world has little use for the cow, calf, lamb or hen, lifts you a bit

And then, good books and papers that makes one think things and do them is a big boost up the hill of conquest. Show me the books and the Ask a hundred men of the present papers a boy or a girl reads and I will

> Best of all, keep your heart true and honest toward Father and Mother. Love them. Think with them in all right ways. Be to them a support and a tower of strength. They are worthy of it and you cannot afford to leave any spot or place unguarded in your love for them and the old home. Love home, love those in it, love the community, love the nation. Defend them all with might and main! .Do this and you are bound to succeed!

OTTAWA COUNTY CLUB ACHIEVE-MENT DAY.

OTTAWA County Achievement Day was held Friday, May 27, 1921, at McNitt School, Conklin, Michigan. It was a real community picnic, held under the direction of the teacher, Miss Violet Gilbert.

The forenoon was fun for young and old. Outdoor sports were as follows: Running races, ball throws; pitching quoits, standing broad jump, running broad jump, pole vaulting and indoor baseball game. Ribbons were awarded to winners.

During this time the judging was be-ing done inside. The exhibits were extraordinary. The places in garmentmaking were as follows: Vivian Borgman, first; Sylvia Nostrant, second; Rosa Hendershot, third.

Hot lunch: Sylvia Nostrant, first; Rosa Hendershot, second; Nellie Kaufman, third.

Handicraft: Lyle McNitt, first; Fred Seelman, second.

Ottawa county champions to have a free trip to Lansing as guests at M. A. That was a fine declaration of prin- C. are: Sylvia Nostrant and Lyle Mc-

At noon a bounteous dinner was served. Tables were set and plates to-date member of a good cattle club, laid for one hundred and thirty. Ice cream and cake was served as dessert. At 1:30 p.m. the afternoon program was given. A very pretty flower and wand drill by twenty boys and girls. Reading of the best stories of hot lunch, handicraft and garment-making respectively were by Sylvia Nostrant, Lyle McNitt and Verlan Borgman.

"A Mother's Viewpoint of Hot Lunch Results," by Mrs. Gertrude McNitt. A play by the Boys' and Girls' Club members, "The Rejuvenation of Our Farm." The judges, Mrs. T. F. Rogers, of Raright use of the material things we ton, appointed the places to the club

Cockerels from 6 Weeks Old on Up.

We have several thousand to select from. Can furnish stock of Utility, Ex-hibition and Laying Quality, at reasonable prices. When you write us, plainly state just what you want. Now if you want stock that is bred for high egg pro-duction and quality don't fail to grasp this opportunity and don't wait too long to order. We can more than please you for the money, guarantee you satisfaction. Huber's Reliable Hatchery, East High St., Fostoria. Ohio

POULTRY

Barred Rocks Hatching eggs from Parks 200-egg best pedigreed pens. \$2 per 15, \$6 per 50, \$12 per 100. Prepaid by parcel post in nonbreakable containers. R. 6. KIRBY, Route 1, East Lansing, Mich.

CHICKS English Strain White Leghorns the heavy laying strain at only \$15 per 100: prepaid by mail safe arrival guaranteed send each with order special rates on 500 or more. JAMESTOWN HATCHERY, Jamestown, Mich.

Baby Chicks Good big healthy chicks of show room quality at utility prices Gatalogue free. Sycamore Hatchery, Sycamore, Ohio Barred Rock and Ancona Chicks ^{\$12} per 100 for pure bred, safe arrival. H. H. Pierce, Jerome, Mich CHICKS English Strain White Leghorn. Bred to lay Brown Leghon and Anconas. Bargain prices for our quality stockkept on free range. Order now for early deliveries. Hillside Grove Hatchery Farm. R. 1, Holland, Mich. Additional Poultry Ads. on Page 773

gain.

So this is Uncle Ed's thought. Remember it, if everything else is foranhood-genuine manhood, genuine womanhood. All the rest we get out of the farm, or anywhere else, is contributory to success or detrimental to it, according as we put it into service in the building of real manhood,

Now, there are a few stepping stones produces the flashes of light we see to success such as we have been talking about. In the first place, the right kind of thinking. You never can think however, that this light is produced low and reach 'up high. Every right thought, every kindly action, no mat- of the energy which is expended in ter whether expressed toward man, the flame of a candle.

winners.

Rev. W. L. Mann, of Ravenna, gave a fine address of our efforts "To Be a gotten. Success is manhood and wom- Good Loser." The program ended with the renewing of old acquaintances.

> Fame and fortune await the scientist who discovers the secret of the familiar firefly or lightning bug. No one has been able to tell how the little insect twinkling about us on dark nights. Careful scientific tests have proven, with about one four hundredths part

The Breeding Cockerels

By G. K. Riley

tention as pullets as these males must not get him down and trample him to also make a steady, vigorous growth death. I have not tried this treatment if they are to be the kind of birds suit- on young turkeys as I drive my turable for breeding. Cockerels should be keys to the fields when they are two culled frequently after they have weeks old and they seldom come to reached the broiler age and this culling the house before September, or someshould be continued throughout the times in November. season until the birds remaining are all good enough to head breeding pens with cholera or any bowel trouble. either on the home farm or in the hands of other poultrymen.

It is best not to isolate the cockerels entirely from mature hens or old males. A large flock of cockerels penned together will be apt to fight and will injure the sale of the birds for the eggs from your flock remain fresh. breeders. They can be allowed to run with a few mature hens and one or more cock birds. The old stock will keep down the fighting instincts of the cockerels and they will be more subdued in disposition and more satisfactory as breeders when they are placed with hens or pulelts in the spring. However, a large flock of cockerels should not be permitted to range with pullets which are being developed rapidly as egg producers. These young males are rough around the feed hoppers and it is bad for the pullets.

Cockerels need a balanced ration. They must have the kind of food which produces bone and muscle as well as fat. The poultryman wishes his cockerels to attain size in order that they may transmit that characteristic to their offspring. The large quantity of feathers which the bird grows need the materials in a balanced ration so that the feathering process will proceed rapidly. Corn should not be fed exclusively to the breeding cockerel, but it should be combined with boiled oats, sour milk and wheat screenings when they can be obtained. A dry mash containing bran in large quantities will be useful in promoting rapid growth. Ground bone and beef scrap are of special value and very necessary when there is not an abundance of sour milk. Green food is important if the birds are fenced on a range deficient in all kinds of green food and it must be supplied. The ration that is good for the growing pullets is good for the cockerels and just because the pullets are to produce eggs is no reason why they should receive heavy feeding and the cockerels should get along on short rations. There is little danger in overfeeding growing cockerels if they are given a variety of food. There is a danger of underfeeding them and finding a collection of partially stunted birds to go into the breeding pens next spring.

CONTROLLING BOWEL TROUBLEN

S OMETIME ago I saw an inquiry in the Michigan Farmer for a cure for blackhead in turkeys. Your writer says there is no cure. I am so sucit a cure.

When I find a turkey refusing to eat, with bowels loose, I shut him up, not who wins at one of these national in too close quarters, and give him shows will certainly have an unboundwater with carbolic acid. One pint of ed pride in the youth. water and three drops of carbolic acid will do. No other water should be attending the work among the boys given. If he does not drink it, put and girls of the country, and the inthree or four teaspoonfuls down him, fluence their work has had upon the two or three times a day. Feed no older people, it truly seems that the corn, but keep a little moistened bread, a little wheat and some gravel before the rising generation for centuries, him. Apple, cabbage, grass he will and which reads, "Children should be eat, but as his appetite comes back to seen and not heard," might well be him do not feed too much.

natural let him have what he wants. would seem important that every pargin to recover rapidly.

C OCKERELS that are saved for If he is rather weak when turned breeding require fully as much at- out, watch that the other turkeys do

This treatment is good for chickens MRS. M. N. BRYANT.

CAN THE ROOSTERS.

THIS is the time of the year to swat the rooster again. That is, swat this may cause serious blemishes that him if you are interested in having

> What shall be done with him or them? Those roosters that are to be used as breeders later should be placed in a separate pen, or even in a well ventilated, clean coop. The cull roosters may be killed and canned according to directions for canning furnished by the extension service of the Ohio State University. This places a supply of chicken in the housewife's hands for that unexpected guest. It also stops the expense of feeding to a later date for killing. Another method of disposing of the cull rooster is selling them to your local dealer.

CHICKS WITH SORE EYES.

I have about ninety R. I. R. incu-bator chicks two weeks old. They have killed several chicks by pecking each other's eyes. At one time there were twenty-five afflicted. Apparently the lower lid gets a scale on it which the chicks pick off, leaving an exposed sore and in a few minutes they have sore and in a few minutes they have nearly blinded the chick. Have noticed two that had a watery discharge from the beak. Otherwise the chicks seem normal. If not too badly hurt, isolation and peroxide have proved effective for the wounded chicks. But why should the chicks behave so and can you suggest a remedy? R. B. C.

Chicks sometimes have sore eyes because of dusty litter in the brooder house. Coal-burning brooder stoves make the house very dry and the scratching of the birds will keep the air full of dust. The watery discharge may be from slight colds caused by crowding and overheating, followed by slight chilling. Chicks may peck at each other's eyes for want of other things to attract their attention. When they have plenty of range outside they can keep busy running and scratching and seldom pay as much attention to each other as when closely confined in the brooder house. The peroxide wash you have used may control the trouble and it will not appear as the chicks become a little older and can range where green food and worms are abundant.-R. G. K.

ENCOURAGING THE "SON TO SHINE."

(Continued from first page).

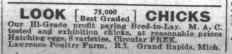
cessful with my treatment that I call are trips to Europe, free educational advantages and other worth-while rewards. The parent of any boy or girl

In view of the remarkable success old adage which has been repeated to changed to, "Parents, listen to what When the droppings begin to look the children have to say." Anyhow, it From four to seven days he should be" ent do his or her utmost to encourage the "Son to Shine."



at 8 cents and up. Announcing our summer proce-for 1921. It cents Buff Leg. II cents Br. Leg. 11 cents Anconas 12 cents Barred Rocks 12% cents Reds 13% cents Buff Rocks 13% cents W. Yandottes 15 cents Brollers 8 cents Deduct 5% for orders of 500 or more, 10% for orders of 1000 or more. We prepay parcel post charges and guarantee live delivery. Send for free catalogue and earliest delivery date. Ohls Poultry Yards & Hatchery, Marion, Ohio English White Leghorns chicks 10c, pullets 75c and up. Our choice breeders reasonable. Discount on large orders. Robt. Christophel, R. 4. Holland, Mich. **RHODE ISLAND WHITES** win over a'; breeds at the egg laying contest. 30 eggs \$5; 50 \$8; 100 \$15 order from this ad. Some chicks, H. H. JUMP, R. 5, Jackson, Mich. S. C. Black Minorcas Ergs from No 1 pen will be \$150 per setting of 15, for the bal of the season. R. W. Mills, Saline, Mich. **BABY CHICKS** of Superior Quality Of Superior view of the store o PULLETS: Extra selected, high grade Barred Rock prices. Model Poultry Farm, R. 4. Zeeland, Mich. Quality Chicks Black Minorca. Light Brahma, 250 each. Barred Rock, R. I Red. 180 Tyrone Poultry Farm, Fenton, Mich. White and Brown Leghorn Chicks from selected June 1st and every Wed, thereafter. Other breeds 12 cts. Order from this ad Extra Good Chicks June 1st and every Wed, thereafter, Other breeds 12 cts. Order from this ad. DERR & ADAMS, Litchfield, Mich. Plan now on more eggs next winter. June and July chicks lay when eggs are high. Eng. White Leghorns, \$11-100; Brown Leghorns, White Wyandottes: 207 egg average Hatching eggs, Baby chicks 28 cents each. Cockerels, \$11-100; Anconas, \$12-100. Postpaid any-where. Catalog free.

Monarch Poultry Farms and Hatchery, Zeeland, Mich.



\$2.00 per 15. Baby chicks 25 cents each, countries, hens and pullets, FRANK DeLONG, R. 3, Three Rivers, Mich, White Wyando⁺te half price balance of HOWARD GRANT, Marshall, Mich. Pullets S. C. W. Leghorns for June, July and August 8 to 10 weeks old \$1 each. HENRY WATERWAY, R. 4, Holland, Mich.

Additional Poultry Ads.on Page 775

THE MICHIGAN FARMER

Howell, Mich.

Blythefield Farms Settle 'your Herd Sire problem now by getting a thirty pound record pure bred Holstein bull calf from Blythefield Farms, Address JOSEPH H. BREWER, Grand Rapids, Mich

Reg. Holsteins for sale at all times either reasonable. Write or come and see them. HENRY S. ROHLFS. R. 1, Akron, Mich.

Here Is a Good One Born June 2 1920 by Maplecrest De Kol Hengerveld, a sire having three sisters each having records of over 200 pounds of butter in a year. Two of them former world champions, call's dam by an own brother to Highland Hartog De Kol yearly roord of 1247.95 pounds. This combination of breeding will give re-sults. HILLOREST FARM, Kalamazoo, Mich.

All herds under U. S. Supervision.

A Proven Blood Line

BULLS. GRAND RIVER STOCK FARM, 315 N. East Ave., Jackson, Mich. C. J. Spencer, Owner, Under State and Federal Supervision

A Good Noie accepted in payment of finely bred reg-of the best, and at prices within reach of all. Write, GEO. D. CLARKE. Vassar, Mich.

The Traverse Herd

We have what you want in BULL CALVES, the large,

They are from high producing A. R. O. ancestors Dam's records up to 30 lbs. Write for pedigrees and

TRAVERSE CITY. STATE HOSPITAL

Traverse City, Mich.

Cluny Stock Farm

Offers

Cluny Konigen Colantha Silver 326205

Born May 29, 1920 A white bull with a few black spots. His sire a 30 lb. son of King Segis Pontiac Konigen. Sire's 7 nearest dams average 32.301 lbs, butter 624.1 lbs. milk in 7 days.

His dam has a Jr. 3 year old record of 17.683 lbs. butter from 418.7 lb. milk and is a granddaughter of Colan-

2nd dam—a 21 lb. cow that our barn records show milk-over 145,000 lbs. in 14 milking periods producing 15 calves.

R. Bruce McPherson, Howell, Mich.

Reg. Holstein Bull ready for heavy service, choice individual and extra well bred. Dam has record of 21 lbs. butter and 534 lbs. milk in 7 days. Priced for immediate sale. Send for photo and ped-igree. MERLE H. GREEN, Ashley, Mich.

Reg. Holsteins and Berkshires, most any age, either sex, priced according to other commodities. Write or come. B. B. REAVEY, Akron. Mich.

HEREFORDS

Cows with calves at side, open or bred

heifers of popular breeding for sale. Also

Allen Bros. Paw Paw, Mich.

Thumb Hereford Breeders Association

now offering some excellent young males and fe-males of choice breeding. Can furnish one or a carload. Priced right. Your inspection solicited. Jas. R. Campbell, Secretary. Bad Axe, Mich.

616 So. Westnadge Ave., Michigan

bulls not related.

Kalamazoo,

Pedigree on application. Price \$250.00. Federal Accredited Heard.

quotations, stating about age desired.

MCPHERSON FARMS CO.

Blue Bell, Supreme Champion at the Smith-field Show 1919, and the Birmingham Show 1920, is a daughter of Edgar of Dalmeny.

BREEDERS' DIRECTORY

Change of Copy or Cancellations must reach us Ten Days before date of publication

THE HOME OF

Imp. Edgar of Dalmeny

Probably

The World's Greatest

Breeding Bull

1920, is a daughter of Edgar of Dalmeny. The Junior Champion Bull, Junior Cham-pion Female, Champion Calf Herd and First Prize Junior Heifer Calf, Michigan State Fair, 1920, were also the get of Edgar of Dalmeny. A very choice lot of young bulls—sired by Edgar of Dalmeny are, at this time, offered for sale. for sale

Send for Illustrated Catalogue. WILDWOOD FARMS ORION, MICHIGAN

Sidney Smith, Supt.

W. E. SCRIPPS, Prop.

Woodcote Angus Trojan-Erica and Blackbirds (Blackcaps) Herd Bulls Imp. Elcho of Harviestoun. Imp. Edgardo of Dalmeny Write for 1921 Sale List. Woodcote Stock Farm, Ionia, Mich.

CLOVERLY ANGUS

Cows and Heifers Bred to Blackcap Brandon of Woodcote 2nd For Sale GEO. HATHAWAY & SON. Ovid, I Ovid, Mich.

REGISTERED Aberdeen-Angus. Ten heifers, six buils from eight to fourteen months. Best of breeding, the growthy kind that make good. Reason-able. Inquire - F. J. WILBER, Clio, Mich

Reg. Aberdeen Angus bulls and heifers of the very best of breeding, from 12 to 15 months of age. F or next 30 days will price bulls at \$100.00. Real bargains. Inspection invited. RUSSELL BROS., Merrill, Mich.

REGISTERED Guernseys. Bull calf ready for light service-out of our old Foundation Cow-Primrose Hessie-and one of the best May Rose Bulls in the fate, \$100 buryshim. Never had a reactor-mo abortion. Herd Fed. Tested. J. M. Williams, No. Adams, Mich.

GUERNSEYS -REGISTERED BULL CALVES Containing blood of world champions. HICKS' OUERNSEY FARM, Saginaw, W.S. Mich.

Guernsey Bulls of May Rose Breeding 20 to 650 lbs. fat also a few cows and heifers are offered. H. W. Wigman, Lansing, Mich.

For Sale 5 young imported Reg. Guernsey cows bull; his 5 nearest dams average 725 lbs. fat, \$300 E. A. BLACK, Howard City, Mich.

Guernsey bulls, grandsons of Carrie of Hillhurst Gard A. A. Class Leader, and out of cows on test. Also a 2 yr. old out of a 3% yr. old with a 500 lb. record. Priced to sell. Federal tested. Satisfaction guaran-teed. G. W. and H. G. RAY, Albion, Mich.

Reg. Guernsey bulls for sale cheap. State T.B. test-ted and from good producing and A. R.cows. Age 1 to 12 mo. C. E. Lambert & Sons. Linwood, Mich.

Guernsey Females of superior breeding, at reduced prices. Tuberculin tested. Send for sale list to day. G. A. Wigent, Watervliet, Mich.

Guernsey Bull grandson of Langwater King of May 3 yrs. old, quiet and sure, price right. Apply The Jennings Farms, Bailey, Mich.



We breed them to sell. If you are looking for seed stock, we have it.



Lillie Farmstead Jerseys Bull calves from COLON C. LILLIE, Coopersville, Mich. Registered Jersey Bulls ready for service from R. B. FOWLER, Hartford, Mich Jersey Bulls For Sale ready for service from R. of SMITH & PARKER, R. 4, Howell, Mich. Milking Shorthorns Young bulls with excellent ers. 0, M. YORK, Millington, Mich. Milking Shorthorns, bulls and helfers 5 mo. to 1 year old for sale at reduced prices to make room for younger stock. E. H. KURTZ. Mason, Mich BIDWELL SHORTHORNS BUY A BULL "Top Notch" Holsteins that will put weight on your dairy calves -the diff-erence will soon pay for the bull. Now selling good Bootch and Scotch-topped yearlings, reasonably, priced. We guarantee every animal to be a breeder. Federal Test. One hour from Toledo, Ohid, N. Y. C. R. R. BIDWELL STOCK FARM, Tecumseh, Michigan Box D, Shorthorns. Bull calves for sale from the best milking blood obtainable ROSEMARY FARMS, Williamston, Mich **Richland Shorthorns** His name is KING VALE CORNUCOPIA WAYNE, No. 312599 Born February 6, 1920 His dam and sire's two nearest dams average Butter 7 Days 33.02 lbs. Milk 7 Days 607.3 lbs. Handsomely marked about one third white. 220.02 f. o. b. Howell.

We offer a few choice Scotch heifers with calves at foot. This is good foundation stock and the calves are all from top sires. Prices reasonable. Write your wants and see the cattle, C. H. PRESCOTT & SONS,

Office at Tawas City, Mich., Herd at Prescott, Mich.

The Maple's Shorthorns KING SEGIS transmitted to his sons the power to transmit to their daughters the greatest of produc-tion over long periods. It is his offspring that has recently made the greatest yearly production ever dreamed of 37,381 4 pounds of milk in a year. We have for sale at moderate prices. Beautiful individuals of show type KING SEGIS BULLS. CRAND RIVER STOCK FARM Kirklevington Lad, by Imp. Hartford Welfare, in service. Stock for sale. Gobleville, Mich. J. V. WISE,

Huron County Shorthorn Breeders Ass'n. offer for sale Scotch and Scotch topped males and females of all ages. information address. Bad Are, Michigan.

BUY SHORTHORNS of Central Michi-gan Bhorthorn Breeder's Association at farmers' prices. Write for sale list to M. E. Miller, Sec'y, Greenville, Mich.

Shorthorn Bull For sale. Fames Pride roan with star in forehead. Very gentle and a fine specimen of the breed. Price \$225.00. W. E. BARTLEY, Alma, Mich.

FIVE BRED HEIFERS that we will sell cheap if taken at once. Inquire about them or better come and see them. CARR BROS. & CO., Bad Axe, Mich

Francisco Farm Shorthorns

and BIG TYPE POLAND CHINAS. Now offering 3 heifers, 2 balls, all South Sows to farrow in Aug. Spring pigs. 60 head to choose from. POPE BROS, CO., Mt. Pleasant, Mich. Shorthorns Imp. Royal Pioneer in ser-vice, Bred by J. Durno. J. A. BARNUM, Union City, Mich.

Reg. Red Polled cattle, herd headed by Famous Charmer 757 same blood as Charmer 1919 Int. Gd. Champion. Herd State and Fed. tested. No cattle for sale at present. Westbrook Bros., Ionia, Mich

HOGS

Place Orders NOW for BERKSHIRE boars or sows 6 to 8 weeks old Reg. and Trans. and delivered any where in Mich. for \$15, or a fine large bred sow at \$40.00. I also have an ex-ceptionally fine 400 h. boar for sale at \$40.00. He is a dandy and anybody in the market for him should never pass this up. He is a good one. C. H. WHITNEY,4Merrill, Mich

Berkshire spring pigs, either sex, \$10, \$12 and \$15 Baccording to age. Also fall gilts and yearling sows. CHASE STOOK FARM. Marlette, Mich.

Chester Whites fall and spring pigs mostly sired by Chicksaw's Ace, a real boar, Let me know what you need. ALBERT DORR, Clinton, Mich.

Brookwater Duroc Jerseys FALL BOARS OPEN GILTS

All of the right type and the best of breeding. Prices reasonable. Mail orders a Specialty. Satisfaction guaranteed. BROOKWATER FARM, Ann Arbor, Mich. H. W. Mumford, Owner J. B. Andrews, Mgr. DUROC JERSEYS: A few choice sale. CAREY U. EDMONDS, Hastings, Mich



A Successful Rural Milk Campaign

T is most surprising how much opportunity there is for the increase

of milk consumption in our rural communities. There prevails a very general notion which is, fairly well supported by unofficial statistics, that the country teks consume less milk per capita than do the city people. This evidence led to a general movement designed to stimulate the use of dairy products in rural places and the results of the first campaign conducted will be of interest to consumers as well as producers.

During May the message of milk, the fundamental food, was carried into every home in Walworth county, Wisconsin. The campaign was conducted by the Walworth County Farm Bureau, the National Dairy Council, the Wisconsin Dairy Council, and the Wisconsin College of Agriculture. Mr. W. A. Foster, secretary of the farm bureau, was the man behind the gun.

Full cooperation was received from everybody-the mayors issued proclamations, the schools made milk posters and staged the "Milk Fairy Play," the business men dressed their windows in "milk attire"-using the very splendid posters made by the schools and the National Dairy Council; they also tied their advertisements up with the milk week propaganda; the nine newspapers carried feature articles and advertisements; the picture shows cooperated in running milk films and slides; the local citizens gave support, likewise the women's clubs, churches, and all other organizations within the county.

One month before the campaign commenced a survey of 1,613 representative school children from rural schools was made, which showed the following interesting and startling facts:

680 drink tea and coffee regularlyaveraging 1.5 cups daily. 980 drink milk regularly—averaging

2.1 cups each.

268 drink no milk at all. 365 drink milk occasionally.

241 use no butter.

During the milk week there were ninety-two meetings held, addressed by sixteen speakers, furnished by the organizations conducting the campaign. Preparatory to the mass meetings held each evening, oftimes a parade was held.

The closing of the campaign came on Saturday at the county seat, where the band furnished music during the entire day, and where bread, butter and cheese sandwiches and ice cream cones were given away to nearly ten thousand people, who gathered for the festivities. Among other attractions, came the milk fairy play, which was staged in the open in a very beautiful and pleasing manner.

The final results are not yet compiled, but preliminary reports indicate the campaign brought the following results:

An increase of twenty-two per 1. cent in sales of brick ice cream for home consumption. 2. An increase of nineteen per cent in consumption of butter.

JUNE 25, 1921.

Rochester, Mich.	FOR SALE: Full-blooded high-class Hol- Black & White Farm, Fremont, Mich.	prices Vonr correspondence or personal inspection	2. An increase of infected per cent in consumption of butter. 3. An increase of eighteen per cent
USE PURE-BRED SIRES! Estimates furnished by the Dairy Division of the United States Department of Agriculture show	Registered Jersey bulls, some ready for ford's Champion Fox 166651, out of Oxford Daisy's Princess. Register of Merit record 8311 lbs. milk; 468 lbs. butter with first calf, milked 50 lbs., per day with second calf. Sister to Sadles Crown Princess 16578 lbs. milk, 1031 lbs. butter in one year. The dams of these	Duroc Boars at bargain prices large growthy hogs lo Durocths old at \$60. Will send C. O. D. and regis- ter in the buyers name. Orders booked for Apr. pigs to deliver June 1st. W. E. Bartley, Alma, Mich.	in consumption of fluid milk. 4. An increase of thirty per cent in consumption of cheese. 5. A falling off of thirty-four per cent in the sale of so-called butter substitutes.
that the dairy cows of the country average only 4,500 lbs. of milk per year. A good Holstein bull will increase the production	bulls are high producers, many of them are prize winners. Prices very low, quality considered. O. S. BASSETT, Kalamazoo, Mich	sey boars ready for service. W. H. MAYES, L. B. 505, Durand, Mich.	This seems to be the first county in the United States to put on a milk
of the ordinary herd 0 per cent in the first gener- ation.	BUTTER BRED FOR SALE CRYSTAL SPRING STOCK FARM, Silver Creek, Allegan County, Michigan.	DUROC Jerseys. Boars for spring service, heavy boned type, from the most popular blood lines at reasonable prices. Partridge Rock eggs from best lay- ing strain \$2 per 1%. Drodt & Berns, Monroe, Mich.	campaign upon so broad and compre- hensive a basts. The need of such-
herd. You cannot make a better investment. The Michigan Holstein-Friesian Association	The Wildwood Farm Jerrey Cattle, Majesty strain, Herd on State accred- ited list, R. of M. teering constantly done. Bulls for sale, ALVIN BALDEN, Phone 143-5, Capac, Mich.	URDCS WITH QUALT	campaigns is very evident and the re- sults that can be secured will justify other organizations in promoting this important work. The National Dairy
H. W. NORTON, Jr., Field Secretary, Old State Block, Lansing, Michigan	Thorobred Jersey Bull Calves Hood Farm and Federal accredited list, \$25.00 each. Also one yearling bull ready for service. Fedigrees on request. I. W. JAYNE & BEN BRAWY. Fedigrees on Reduct.	Spring pigs by Walt's Orion, First Sr. Yearling	Council will be glad to outline a simi- lar campaign for other counties inter- ested in educating the public to a
Holstein Frieslan heifer and bull calves, purebred registered and high-grade. Frice 320 up. Splendid individuals and breeding. Write as your re- guirements. Browncroft Farms, McGraw, N. Y	JERSEY BULLS Ready for Service, and Majesty breeding. Meadowland Farm, Water man & Waterman, Packard Rd., Ann Arbor, Mich.	Detroit, Jackson, Gd. Rapids and Saginaw 1919	greater appreciation and greater use of dairy products—the vital foods.

JUNE 25, 1921.



Advice through this column is given free to our subscrib-era. Letters should state fully the history and symptoms of each case and give, name and address of the writer. Initials only are published. When a reply by mail is requested the service becomes private practice and \$1 must be enclosed.

Chronic Indigestion.—I bought a calf in the fall of 1919; he failed to thrive the first winter and when spring came he was thin. Last summer he did not do well, but gained in flesh a little, but this spring he is in bad shape. I fed him silage, corn stover, grain and stock food during the winter. F. L., Vanderbilt, Mich.—Mix equal parts of powdered gentian, red cin-chona, fenugreek, baking soda, salt, and give a tablespoonful or two at a dose twice a day. Grass is the best food.

Sidebone.—I have a valuable horse that is lame in left front leg. Our vetthat is lame in left front leg. Our vet-erinary tells me the lameness is caus-ed by sidebone, but if this be true, the bunch is small. He applied one blis-ter, the horse is no better. Would you advise firing? E. L. T., Alto, Mich.— Apply one part iodine and ten parts fresh lard to the bunch two or three times a week. Lower his heels and give shoe rolling motion.

Indigestion.-Have a cow that came fresh four weeks ago which is not thriving. She seems to be most fond of dry oat straw. F. C. H., Clarion, Mich.—Give her one pound of epsom salls as a cathartic, then give her one ounce of powdered gentian at a dose twice a day. Grass is the best feed for her.

Malignant Sore.—About the middle of last summer a sore came on the fore part of cow's udder, which has never healed. A crust forms, or a sort of scab comes on top of sore. W. C. P., Beaverton, Mich.—Apply equal parts of oxide of zinc and boric acid to sore twice a day. Occasionally ap-ply tincture of iodine. In my practice I frequently burn a sore of this kind with a red hot iron; this stimulates a healthy action, then wound heals. Muscular Rheumatism —We have a Malignant Sore.-About the middle

C.O.D.

Muscular Rheumatism .--- We have a black cow six years old. Just before a storm she shows lameness in right fore and left hind legs. She has bunch on knee, also lost her last calf. R. B., Homer, Mich.—Give her a teaspoonful of nitrate of potash in feed or water three times a day, during stormy and changeable weather.

Failure to Come in Heat.—I have four cows that fail to come in heat, but everyone of them seem to be in perfect health. R. H. M., Harbor Beach, Mich.—Give each cow forty grains of ground nux vomica and sixty grains of ground capsicum in feed twice a day.

Stiff Pigs.—Have a litter of pigs that are four months old, which are stiff and sore.* The hind legs of one swelled and it died. E. D. Y., Linden, Mich.—Give each pig five grains of sodium salicylate at dose twice daily, feed less corn feed less corn.

Rheumatism .- Brood sow three and Rheumatism.—Brood sow three and a half years old is stiff and sore. She is disinclined to walk, has generally raised nice large litters of pigs, until this fall. What had I better do with her? Mrs. C. M., Springport, Mich.— Give her ten-grain doses of salicylate of and three times a day Her history of sola three times a day. Her history is such as to cause doubt regarding her permanent recovery. Perhaps it would be wise to market her to butch-er. You have fed her too much corn. She also lacks exercise.

er. You have fed her too much corn. She also lacks exercise. Weak Calf—Dead Twin Calves,—We have a cow that gave birth to a weak at last year. Calf came at proper time but lived only a few days. This year she had twins, both came dead. What had I better do with her? I night add that she is apparently in good health. G. W. L., Jasper, Mich.— If she is a good milk-producer and profitable, breed her sagan; if not, fat-ter and beef her. Bularged Withers—Eversion of Uterus.—Giver since harvest time the withers of my five-year-old mare has been considerably enlarged. Veteri-nary cut into bunches, found no pus. Had applied liquid blister, also blue vitrol, neither seemed to help. His general health is good. Have a three-year-old cow that had eversion of womb when she last calved, will she be likely to have the same ailment again? C. T., Clifford, Mich.—Appty equal parts of oxide of zinc and boric atid to wound twice a day, when with ers suppurate, have veterinarian open abscess freely in order to allow per-fect drainage. Be sure to exercise the ow before calving, and open bowels at calving time.



DR. H. W. NOBLES,

Feeders Attention 0.1.C's Choice gilts for April and May farrow, also fail pigs. Booking orders for spring pigs. A.J. BARKER & SON, Belmont, Mich We can sell you Salvage Oats for feeding at prices low enough to store until Fall if you have no stock on feed now. This is the opportunity. Write at once for samples and prices delivered Write for Prices on O. L.C. pigs of March and C.C. Gallway Boy. God Jong ones the kind that fills the Pork bbls. Some good Jersey bull calved bir of the Albertas Jubilee kind. All stock reg. in buyer's name. VILLAGE STOCK FARM. Jeddo, Mich. C. E. Dingwall Co., Milwaukee, Wis.



Pine Grove Hampshires Bred sows all sold. We are offering 100 spring pigs of excellent breeding and quality. Either sex, order early. GEO. COUPAR & SONS. Marlette, Mich. POULTRY **Special** Sale on Pullets

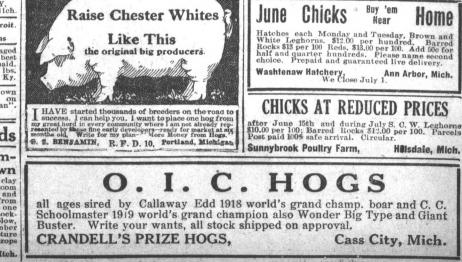
We will have a special sale on our Bred-to-lay April hatched Single Comb White Legorn pullets at 75 cts. each. Sale starts now and ends July 4th. This stock is No.one quality produced on our

own farm, from high quality stock and is fully guaranteed. Take advantage of this opportunity to secure good stock at a reasonsonable price. This offer will not be repeated this season as we are selling our own stock only. Order direct from this ad. and save time.

Macatawa While Leghorn Co. R. 1, Ho'land, Mich.

17-775





Coral, Micho

THE MICHIGAN FARMER

JUNE 25, 1921.



GRAIN QUOTATIONS Tuesday, June 21.

Wheat.

Detroit.—Cash No. 2 red \$1.35; July \$1.29; No. 2 white \$1.28; No. 2 mixed \$1.30.

\$1.30. Chicage.—No. 2 red \$1.36@1.37½; No. 2 hard \$1.36½@1.38; July \$1.28½; September \$1.23. Corn

Corn Detroit.—Cash No. 2 yellow 62½c; No. 3 yellow 61½c; No. 4 58½c. Chicago.—No. 2 mixed 61¾@62¼c; No. 2 yellow 62½@62¾c. Oats. Detroit.—Cash No. 2 white 40c; No. 3 white 38½c; No. 4 white 35½c. Chicago.—No. 2 white at 37¾@38c; No. 3 white 36½@37¼c. Beans.

Beans.

Detroit.-Immediate and prompt are

Detroit.-Immediate and prompt are lower at \$3.50 per cwt. Chicago.-Market is steady and de-mand good. Hand-picked Michigan beans choice to fancy at \$4.20@4.50; red kidney beans \$9@3.25. New York.-The market is quiet. Choice pea \$4.60; do medium at \$4.75; red kidney \$11.50. Rye. Detroit.-Cash No. 2 rve is higher

Detroit.-Cash No. 2 rye is higher at \$1.23. Seeds.

Detroit.—Prime red clover \$13.50; October \$11.75; alsike \$14; timothy at \$3.15.

Hay. No. 1 timothy \$19@20; standard and light mixed \$18@19; No. 2 timothy \$16@18; No. 1 clover mixed \$14@15; No. 1 clover \$13@14; rye straw \$13.50 @14; wheat and oat straw \$12.50@13 per ton in carlots at Detroit.

WHEAT

Wheat prices declined sharply dur-ing the past week largely as a result of country offerings of the new wheat for early shipment. Cash wheat buy-ers were disposed to await this movement from the southwest. Many farm-ers are anxious to sell as soon as the threshing starts, appearing to fear a further decline later in the season. How much of a decline will occur, it is impossible to say, but no factor will be of more importance than the rate at which farmers sell. Crop reports during the past week have been unfav-orable on the whole. Deterioration from weather and insect pests have been reported in Ohio and in the west-ern states while drouth is threatening spring wheat in the Dakotas and un-confirmed reports of the serious species of black rust have been sent in from the same sections. Also early threshing returns have been disap-

The leading corn surplus states re-port the new corn crop in unusually fine condition thus far. Prices for cash corn are not far above the lowest point of the season but the market is displaying a firm undertone as a dry weather scare during July or August which will advance prices is anticipated.

OATS

Some of the important oat-produc-ing sections report dry weather dam-age and the crop condition elsewhere is spotted. Prices are expected to re-spond to some extent to crop damage although the stocks are unusually large and the time is short until the record acreage of new oats will be ready for harvest. ready for harvest.

FEEDS

FLEDS Millfeeds again displayed weakness and are selling at the lowest prices in eight years. Further declines have been forecasted by some of the trade interests as soon as new wheat begins to be milled in volumes. Production at present is light but demand is ex-tremely slack as the result of good pastures and the availability of new hay. hay.

HAY

Hay markets have been steady dur-ing the past week, chiefly as a result of light receipts as the demand is far from brisk. The harvest of new al-falfa has been delayed by heavy rains in Nebraska and parts of the south-weet west.

WOOL

Wool market sales continue at a moderate rate at unchanged prices. Mill activity continues and demand for cloth is satisfactory but mills are buy-ing wool only as they book orders since stocks of wools are large enough to enough to buy to advantage du since stocks of wools are large enough to enable them to buy to advantage on short notice. Boston prices are as fol-lows: Michigan and New York fleeces, delaine unwashed 35@36c; fine un-washed 30c; half-blood unwashed 29@ 30c; three-eighths blood unwashed 27 @2714c; quarter-blood unwashed 26c.

BUTTER

Butter prices advanced again last week in spite of liberal receipts and most of the advance was retained at the close of the week. Consumptive the close of the week. Consumptive demand remains strong and buying for storage is brisk except upon sharp up-turns. Undergrades have been dispos-ed of without difficulty as receipts of these grades are running smaller than usual for this season of the year. Prices for 92-score fresh butter as 8.65; medium 200 to 250 lbs medium, good and choice \$8.55@8.75; light 150

pointing in Kansas, Missouri and III-inois. CORN The leading corn surplus states re-

EGGS AND POULTRY

Receipts of eggs at the four leading cities declined substantially below the preceding week and prices held un-changed although the movement into cold storage remains rather heavy. Poultry receipts contracted and prices, especially upon hens, advanced rather sharply.

COMING LIVE STOCK SALES. Guernseys.—October 19, Michigan State Sale, Lansing, Mich. F. E. Fox, Waukesha, Wis., Sales Man-

ager. Aberdeen-Angus.—September 23, East-ern Aberdeen-Angus Breeders' Asso-ciation Sale, Eastern States Exposi-tion, Springfield, Mass. F. W. Burn-ham, Greenfield, Mass., Secretary. Aberdeen-Angus.—October 12, Indiana Aberdeen-Angus Breeders' Associa-tion Sale, Indianapolis, Ind. Prof. C. F. Gobble, Lafayette, Indiana,

Live Stock Market Service

Wednesday, June 22.

DETROIT Cattle.

Market very slow; quality common; mostly all grassers.

Best heavy steers\$	7.00@	7.75
Best handy wt bu steers	and and the	7.50
Mixed steers and heifers		7.00
Handy light butchers	6.00@	6.55
Light butchers	3.00@	5.00
Best cows	5.00@	5.25
Butcher cows	3.50@	4.50
Common cows	2.50 @	3.25
Canners	2.00@	2.50
Best light weight bulls	4.75@	5.00
Bologn abulls	3.50@	4.50
Stock bulls	3.000	4.50
Feeders	5.50@	6.25
Stockers	3.25@	
Milkers and springers\$	40@	

Veal Calves. Market opened steady, but closed at 50c lower. ato 50 @11 00

Best	c,	•	٠	٠	×	٠	.*	٠	٠	٠	•	٠	٠	٠	.*	•	٠		\$10.00 W	1.00
Others	i.						1											4	4.00@	8.00
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Mari	tet ste	ady	1.							20		
Mixed	hogs										. 40.10	
Pigs .											. 8.85	
Heavy											8.25	
Sander Street	Sh	eep	a	nd	L	an	nb	S.				
Marl	cet du	11,	qu	ali	ty	C	or	am	01	1.	State State	
Rest 1	amhs	1992.9	204			1.50		610	.51) (a	13.00	

Fair lambs	9.00@10.00	
Light to common	5.00@ 7.55	
Yearlings	4.00@ 8.50	
	1.00@ 2.00	
Fair to good sheep	3.00@ 3.55	
~		

CHICAGO

Hogs.

y, June 22. to 200 lbs common, medium, good and choice \$8.55@8.75; light lights 130 to 150 lbs common, medium, good and choice at \$8.35@8.75; heavy packing sows 250 lbs up smooth \$8.10@8.40; packing sows 200 lbs up rough \$7.85@ 8.10; pigs 130 lbs down medium, good and choice \$8@8.60. Cattle

Cattle. Estimated receipts today are 12,000. Dry-fed steady; others lower. Beef steers medium and heavy weights 1100 lbs up choice and prime \$8.60@9.25; do medium and good \$7.50@8.65; do common \$6.50@7.50; light weight 1100 lbs down good and choice \$8.25@9.25; do common and medium at \$6@8.25; butcher cattle heifers. common. medilbs down good and choice \$8.25(@9.25; do common and medium at \$6@8.25; butcher cattle heifers, common, medi-um, good and choice \$4.25@8.25; cows common, medium, good and choice at \$4@6.65; bulls bologna and beef \$4@ 6.50; canners and cutters cows and heifers \$2@4; do canner steers \$2.55@ 3.55; veal calves light and handy-weight, medium, good and choice at \$8@9.75; feeder steers common, medi-um, good and choice at \$5.75@7.55; stocker steers common, medium, good and choice \$4.25@7.25; stocker cows and heifers common, medium, good and choice \$4.25@7.25; stocker cows and heifers common, medium, good and choice \$3@5.50. **Sheep and Lambs.** Estimated receipts today are 18,000. Lambs are 50c lower; sheep steady. Lambs are 50c lower; sheep steady. Lambs 84 lbs down medium, good, choice and prime at \$9.50@12.75; do culls and common \$5.50@9.25; spring lambs medium, good, choice and prime at \$6.50@10; ewes medium, good and choice \$3.50@5.50; ewes cull and com-mon at \$1@3.25; breeding ewes full mouths to yearlings \$3@5.75.

BUFFALO

On this market heavy hogs brought \$9,9.25; mixed hogs \$9.50; others at \$9.50,09.75. Lambs and calves sold for \$12 per cwt.



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