

"MICHIGAN PROF GROWERS LNC." op-operative MACHE DELAN fru. 0.21

marketing organizations, and fast rounding into shape The Michigan Michigan Fruit Growers, Inc.," which is to be the name of the state Inc. which is to be the name of the state federation of fruit exchanges, a mat-ter that was determined at Benton Harbor, Feb. 28, by representatives of the fruit growers who net with State Farm Bureau officials and members of the marketing depart-ment of the Michigan Agriculture College at the Third Fruit Confer-ence

The delegates to the meeting made Benton Harbor the perman-ent headquarters of the Michigan Fruit Growers, Inc. A capitalization of \$50,000 was antherized and the maximum indebtedness to be per-mitted the institution was set at silot,000. A temporary board of eleven directors was elected. They shall arrange all details of the ex-change and submit their work to the co-operative fruit marketing hodies interested in the exchange. oon a permanent organization is to be effected and there will be a mem-bership drive. The organization is ateresied in improving the distri-ution and marketing facilities for Interest Michigan fruit.

Temporary directors elected werea Representing the grape interests, F. L. Bradford, St. Joseph, chairman; L. Bradford, St. Joseph, chairman; M. H. Pagsley, Paw Paw; S. C. Thorton, Lawton; M. D. Buskirk, Paw Paw; W. S. Seymour, Bridge-man. Representing the peach and apple growers, George Friday, Colo-ma, chairman; James Micel, South Haven; John Wikinson, Hartford; M. Overton, Rangur; J. H. Barren, Fennville, C. M. Hogne of Sodus represents the berry interests. Af-fairs of the institution will be in charge of a general board of dele-gates representing the co-operative gates representing the co-operative fruit marketing associations, the number of delegates allowed an asmount of business it does. the

CHEBOYGAN COUNTY FARM BUREAU NOTES

REALIZING that successful and profitable crop production de-pends upon the adoption of a systematic plan of crop rotation, and a scientific program of soil feeding, the beard of directors of the Cheboygan County Farm Bureau have decided to conduct an extenhave decided to conduct an extensive legume campaign in the county during the coming year, in an effort to increase the acreage of clover and alfalfa. Clover is the key of the successful crop rotation, and it is the secret of success in dairying and

live stock raising. Members will be encouraged and assisted in every way possible to in-crease the acreage, of leguminous crops grown on their farms. Parti-cular attention will be given to ef-forts to encourage the farmers to sow more sweet clover and alfalfa. Either sweet clover and alfalfa.

Either sweet clover or alfalfa can be grown seuccessfully on almost any farm in Cheboygan county, provided the soil is carefully and properly prepared and high grade, adapted

Many of our farms may require an application of lime before either sweet clover or alfalfa can be grown successfully. Anticipating that need the County Farm Burean is per-fecting arrangements so as to be able to furnich pulverized limet able to furnish pulvarized limestone in car lots, at cost, and on short methoe, to any member or group of members who want it. A thousand dollars' worth of

arm Bureau brand grass seeds have an ordered from the State Farm

been ordered from the State Farm Bureau this month. Doubtless the orders for spring' delivery will greatly exceed that amount. Though the Cheboygan County Farm Bureau is not organized on a strictly business basis, as a farmers purchasing organization, it has been, and for some time, at least, will continue to be the policy of the management to canvass for orders and purchase supplies for members. and purchase supplies for members. Whenever it is found that commo-dities that the farmers u. ally pur-chase in faily large quant. - can be handled adventageougly chase in faily large quant - can be handled advantageously t ...gh the association. Proceeding in that cautious manner, the association has been able to save the farmers of the county approximately eight thous-and dollars during the past eighteen months, on purchases of coal, fer-tilizer, explosives, fencing, shovels,

Current Agricultural News

eeds, etc. The purchasing business

seeds, etc. The purchasing business has been entirely self-supporting. After paying all expenses in con-nection with the membership drive, and taking care of all other neces-sary running expenses, the organi-zation finished its first year, July 16, and taking the balance include 1921, with a total balance, includ-ing inventory and accounts receiv-able, of \$780.20.—Leslie E. Perry, Secy-Treas. Cheboygan County Farm Bureau.

HOW THE SALES TAX WORKS IN CANADA

MICHIGAN congressmen are cit-ing the Canadian sales tax on sugar as an indication of what might happen to American consum-ers if a sales tax were adopted to finance the proposed soldiers benus. They claim that the Canadian tax is a vicious institution and is ave vicious institution and is not 18 only being passed on to the con-sumer, but is the excuse for exacting additional profits, according to published reports attributed to Congressmen Woodruff, Crampton,

James and Ketcham. The congressmen are not opposed to the bonus, but oppose the sales tax as a method of financing R, ac-

cording to their statement. Canadians produce their own beet sugar and do it at about the same cost of production that features Michigan sugar beet sugar producmionigan sugar beet sugar produc-tion, say the congressmen. In addi-tion Canada imports considerable cane sugar. Canada also has a sales tax on sugar. Last January when sugar was six cents in Michigan the Canadian consumers were declared to be paying ten cents a pound for theirs

The situation is explained by a statement to the effect that when 100 pounds of sugar is sold in Canada the merchant collects from the consumer in addition to the 18 cents government tax \$3.82 as ex-tra profit for himself, the jobber and the wholesaler, or about 21 times the amount of the tax. The Michigan congressmen fear similar abuses of the tax in America and say the tax itself is a heavy burden the great mass of consumers least

able to pay it. It has been pointed out by the congressmen that the nation has

saved nearly enough by the budget and as a result of the arms limitaand as a result of the arms initia-tion conference to nearly pay a bonus if it wishes to. Short term ireasury certificates are seen as a means of bridging any deficit. Re-cently on an issue of treasury cer-tificates. for \$400,000,000 there were subscriptions amounting to \$1,200,000,000.

The various farm organizations continue to wage relentless war on a sales tax as a means of financing a bonus though not opposing the bonus, says the State Farm Bureau, which opposes the sales tax.

WHAT THE WOOL GROWER GETS C J. FAWCETT, director of the

wool marketing department of the American Farm Bureau Federation, has figured out what portion of the suit buyer's dollar finally gets into the pocket of the wool grower. On a suft which retails for \$40, the grower's share is \$1.96. Hence the wool grower's part of the suit buyer's dollar is 4.9 cents. Mr. Fawcett says:

"The exceedingly low market value of domestic wool that has pre-valled for almost two years, has seemingly had little effect on the retail values of articles manufac-tured therefrom. The adverse condition that the wool growing industry has been forced to meet since the war, has forced hundreds en-gaged therein out of business, and caused liquidation of breeding flocks in order to meet financial chligations. Strange as is may seem, no material benefit has been derived by the consuming pub-lig from a wool market so low as to spell ruin to many engaged in its production.

"In order to illustrate the value of raw naterial as compared to the filnished product, the suit buyer's dollar is figured. The calculation is based on 9.8 pounds of wood in its original state of half-blood grade required to manufacture 31/3 yards, cloth-the amount required for an average man's suit. The net price to the wool grower at 20 cents per pound is based on actual sales of the 1921 clip. This illustrates the extent that the cost of raw material

Plant Corn in May or June for Best Results

No gain is made in yield or ma-

conditions of soil and atmosphere are right, in the opinion of the United States Department of Agriculture. Corn growers in locali-ties with a long season have observed that early and late plantings of the same variety usually show wide difference in growth and number of days required to reach maturity. In general, corn which is seeded early requires a longer time to come up than that which is planted later. The plants also grow more slowly, are shorter, and bear their ears lower. Neither the extremely early nor the very late plantings are desirable.

The department investigations reviewed indicate that the best number of days from emergence to yields of grain may be expected from the early seedings and the most rapid development and greatest growth from the later seedings. These are commonly observed effects

of the date of planting. Studies recently have been made by the United States Department of Agriculture at the Arlington Experimental Farm near Washington, D. C., in order to obtain data which would su earlier at the various state experiment stations. Numerous experiments have been conducted by the state agricultural experiment sta-tions to determine the influence of the different dates of planting on corn fields. The state experiments were directed more to a study of the effects upon growth and development than to letermining the most de-sirable d te of planting from the standpoint of yield. The results of these studies, which extended over a five-year period, are presented in Department Bulletin No. 1014, Effect of Date of Seeding on Germina-tion, Growth, and Development of Corn, by E. B. Brown and H. S. Ga rison, which may be had upon ap-

plication to the department. The varieties of corn used in the experiments cover a wide range in the length of the growing season required. The data tabulated is limited to the characters that seem to have been consistently affected, although the points studied included ripening, the height of stalks, the number of ears per plant, the aver-age weight of ears, the average yield per plant, and the number of suckers.

In all the experiments the germination of corn increased in rapidity as the date of seeding occurred later. When sown early the short-season northern varieties came up sooner than the varieties from the central and southern states. When sown later the differences in this respect were not usually apparent.

The total growth of stalk was greatest from the seedings in June and May. The total growth was least and rate of growth slowest from the April seedings. Develop-ment was more rapid in the later than in the earlier seedings.

The number of ears per stalk, the size of the ear, and the amount of suckering bore no consistent relasuckering bore no consistent rela-tion to the date of seeding. The pol-lenshedding period was longer in plants from the early seedings than in those from the later seedings. Seedings earlier than normal resulted in slight gains in the date of silk-

ing. These experiments corroborate the These experiments corroborate the conclusions of the state experiment stations, that corn may be planted in the vicinity of Washington and other localities with a similar sea-son, any time after May 1, without danger of the seed rotting. The best conditions of soil and atmosphere usually come between May 10 and May 20.

enters into the retail price of the finished suit of clothes. Very few realize just what this relation has been and it is the desire of the wool growers that their position be known to all to all.

Through ignorance of "Through ignorance of actual conditions, the statement is fre-quently made that domestic wool is not suited for the manufacture of the better grades of men's wear. This is unfounded; domestic wool for all practical purposes is as valu-able as foreign and in many instan-ces profersible ces preferable.

"The wool growers are not seek-ing through the tarfff to impose an additional burden on the consuming public in the way of increased costs of finished products but are seeking to place their industry in a position whereby production can be main-tained. Wool is one of the most needed commodities and one of which we produce approximately 45 per cent of our own consumption. For the 10-year period of 1910 to 1920 the domestic wool production of the United States has decreased 1,200,000 pounds annually.

"The principles upon which the wood pooling is founded are econ-omy and efficience in distribution, thus seeking to benefit both the producer and the consumer.'

RAILROAD REDUCES RATES ON FEEDER CATTLE

REDUCED rate on inbound cat-tle and sheep for feeding and grazing to all points north of grazing to all points north of. Bay City from Chicago become ef-fective on the Michigan Central Radinoad April 1st. A new blanket rate has been established which, with the present temporary reduc-tions on farm products, gives a rate of 30 cents per hundred pounds on inbound livestock in carload lots.

Farmers taking advantage of the new rate and the templorary reductions will be benefited by savings ranging from \$9.00 to \$20.00 per car on their grazing stock for the ing seas

Sheep in double deck cars will carry the same rate as cattle; sheep in single deck cars take, until

Jume 30th, a 38 cents per cwt. rate. Shipper using this rate must give a certificate to the effect that cattle and sheep so shipped are intended for feeding and not for slaughter.

The Michigan Central is taking this means of further aiding the de-velopment of the cattle industry in Northeastern Michigan.

GRAIN GROWERS' SALES COM-PANY INCORPORATE NCORPORATION of the U.S.

Grain Growers Sales Company, a grain marketing subsidiary of the U. S. Grain Growers, Inc., which will immediately make arrangement to open its doors for business in the Chicago, Kansas City, Omaha, Indianapolis and Minneapolis markets, has been announced by the officers of the U.S. Grain Growers, Inc. The company expects to be in position to handle grain at a very early date, the officials said. The volume of business already contract-ed with the U. S. Grain Growers by its membership will make the subsidiary organization the la grain selling firm in the world. largest

All grain contracted with the U 8. Grain Growers, Inc., by 50,000 farmers in the mid-west to date, representing a bushelage in excess of 110,000,000 to be marketed each year, will be handled through the subsidiary selling company. More-over, the present rate of member-ship increase is around 2,000 additional farmer members each week resulting from organization activi-ties, thereby adding more than 4,-000,000 bushels contracted with the farmers organization each six day period.

"The U. S. Grain Growers Sales Company will be able to engage in a general grain business and perform all the functions of grain firms in the terminal markets at the present the terminal markets at the present time," according to a statement made by President C. H. Gustafson and Secretary Frank M. Meyers of the farmers' company, which ac-companied the announcement. "The incorporation of the selling company rate up a contact of divided the sets up a separate and distinct legal entity and also provides for separ-ate financial responsibility. The selling of grain will be done by expert grain salesmen."

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The Michigan **BUSINESS FARMER**

Sugar Companies Offer \$5 Per Ton for Beets

Owosso Concern First in the Field with 1922 Contracts at Lowest Price in Several Years

HIVE dollars per ton is the munificent offer of the Owosso Sugar Company for 1922 beets. This is the lowest beet price since 1914. The question is, "can the farmer and will the farmer grow beets for \$5 per ton?"

In all the beet growing districts farmers are saying, "no beets for me," but they have said that so many times before and then changed their minds 30 days before planting time that it is impossible to know if they are sincere this time. The acid test usually comes near the close of the contract season when the choice must be made between beets and some other crop.

The Owosso contract provides for the same increase in rates in case of higher sugar prices as in former contracts, that is the company reserves to itself \$1.50 or thereabouts of the increase and gives the farmer \$1.

The failure of Congress to settle the sugar tariff question has complicated the situation this year and made it well nigh impossible for either farmers or manufacturers to figure with any degree of certainty upon the coming season's oper-

ations. The \$5 minimum protects the manufacturer in any conceivable situation that may arise, and if the sugar tariff is fixed at 2 cents per pound It will insure very satisfactory profits for the manufacturers and perhaps make the farmers' loss a little less.

By their failure to sit down with the farmer and discuss the situation frankly and honestly the manufacturers are inviting disaster to them-In former years they have selves. bluffed the farmers into signing contracts. But the farmers are wise to their tactics and need no encouragement now to turn to other crops. The factories cannot run without beets and it begins to look as if some of them will not operate the coming sea-The factories could be assured son. of a fair acreage if they would only come down off their perch and accede to the farmers' demands for recognition and a 50-50 contract.

Upon the subject of the 1922 contract C. E. Ackerman of Durand writes the M. B. F. as follows:

"As spring and the beet planting season approaches and the great readjustment continues on to its conclusion, the farmer and the beet-grower must soon decide on his plans for next year. The success or failure of himself and to a large extent that of all business will depend largely upon the wisdom of the plans of the farmer and it stands out as a plain fact that this year above all others the farmer and grower should deter-mine his plans and policies and contracts and not leave these matters so entirely in the hands of those who speculate and handle his rops from producer to consumer. First the farmer has more invested per acre, per bushel, or per ton in crops sold than ever before especially before the war. Second, the farmer has more borrowed money than ever before (some authorities place it as high as an increase of 300 per cent more than before the war) and third, the cost of all materials, labor, farm suppl'as will be from 25 to 250 per cent higher than before the war. Tax-es will be as high as last year if not higher. Therefore it must now be plain that this year the farmer and beet grower in making contracts for the sale and production of crops this year must not be bluffed into contracts and obligations where he takes 75 to 100 per cent of the chances

LEMENTS LOWER MIGHEST IN MONTH SHEEP ADVANCE 105% YOU BET MALLER

by promises of some rosy conditions in the future. "Let us first consider the 1922 contract for beets. It is a demonstrated fact that the only beets. It is a demonstrated fact that the only contract that can be considered by either factory or grower is a fair sliding scale contract and on top of this the condition in the world at this time point clearly that all imported sugar must have a traiff of at least 2 cents per pound or the beet business in Michigan will become a dead thing in a very short time and when that time comes you can leave it to the importers of raw thing in a very short time and when so of raw comes you can leave it to the importers of raw sugar to fix the price good and high for the Ame can consumer. I only need to call atten-tion to the demands of the Cuban producers (in which around a billion dollars is now invested) during the last war when they ran the price of raw up to 22 1-2 cents as a sample of what they will do when competition is killed or the opportunity presents itself. It seems to me that the interests of the farmer, the banker, the merch-ants of small towns, all manufacturers and especially all consumers of sugar demands that the domestic production of beet sugar be saved, and saved for this year 1922. To my mind there are two necessary things needed to save the industry. First, an adequte tariff and second and

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above all, a fair sliding scale contract from which the farmer will receive 1-2 of the benefits of such tariff and profits from the price of sugar what ever they may be. Now we come to the point, what is a fair sliding scale contract for beets? Surely not the one offered by the Michigan factories in the past. If any grower will take his year's contract it will be found last that from 6 cent sugar to 7 cent sugar there is an advance of \$1.50 in the price paid for beets and from 8 cent sugar to 9 cent sugar there is an advance of only \$1.00 per ton. Here is where I base my contention that if there should be any benefits from a tariff and the price advances to where the grower could afford to raise beets the factories would grab off 75 to 80 per cent of such benefits and profits to themselves, and forms the basis for the contentions of those who are not in favor of a tariff that a tariff only takes the money out of the consumer's pockets and places it in the hands of the trust and not in the hands of the farmers who it must be conceeded are now representing

the 'infant' industry. "In looking over the reports of the (Continued on page 23) .

You Must Feed Your Land if You Want Your Land to Feed You

WEEDS are the only plants which will thrive on sour soil. Sour or acid soil can be sweetened by spreading lime. The practice of spreading lime has been recognized by authorities everywhere as extremely valuable in improving the soil and in increasing crop production.

Limestone also does more than correct sour soil conditions. It releases for the growing plant the plant food which would be otherwise held by the soil; it increases the availability of fertilizers such as phosphates, potash, nitrogen, manure; it also assists in holding and conserving moisture in the soil.

Although other fertilizing elements may be added to the soil, their value is worthless unless are made available for the plants. Limestone, because of its chemical action, breaks down the compounds of ammonia, phosphorus and potasium of manures and commercial fertilizers and makes them available as plant food.

The production of maximum crops is dependent upon the presence in the soil of all the necessary plant foods. Lack of one vital element may render the presence of the other fertilizer useless as far as beneficial crop results are concerned.

Limestone nas the peculiar nature of benefiting and making usable both heavy clay land, with its dense structure and sandy land with its loose structure.

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The heavy clay soil, with its compact structure, shuts off the capillary action of the soil moisture and it does not reach the plants. Limestone breaks up this compact clay soil, permits greater air circulation and increases capillary action.

Sandy land is just the opposite. It is so loose that the soil particles are too far apart and the capillary water cannot traverse from one particle to the other. Limestone in sandy soil causes the decay of plant food, which in turn increases capillary action. Tests made at experimental stations have proven that in dry weather sandy soil to which limestone had been added carried the growing crops through the drought. Unlimed sandy soil had a complete crop failure.

One indication of the need for lime in the soil is the failure of clover, alfalfa and other legumes to grow. These crops cannot exist without lime. Every farmer knows that clover and alfalfa are valuable in order to inoculate the soil with nitrogen, therefore the first essential is a sweet soil, improved with lime in order to obtain these valuable crops.

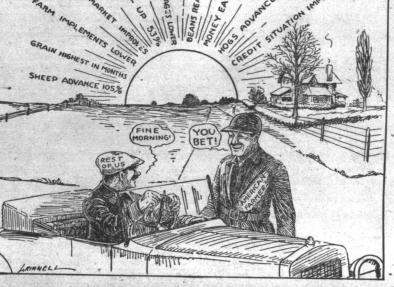
Manure and commercial fertilizers will not restore sick, sour soil. The only crops this kind of soil will raise are sorrell, red top, plantain, sedge, mullen and Spanish needles. As said before, these crops are not profitable.

The most common, and usually the most in-

fallible test to denote a sour soil is the litmus paper test. Obtain from any drug store a few strips of blue litmus rapr. Moisten the soil to he tested with some rain water. Roll the soil in a little ball and insert one of the strips of litmus paper. Be careful not to touch the paper with the hands if they are wet or moist with perspiration. After the strip of litmus paper is in the soil for ten minutes, remove it and observe the color of the paper. If it has turned red or pink, it denotes acidity and the soil needs lime.

Growing plants themselves give off acid substances from their roots. Sometimes this acid is given off in such quantities that it has a poisonous effect on the very plants from which they come, as well as are responsible for sourness. Pron drainage is neces when ary tnese conditions exist, as well as the conditions of lime. Even after the excess water is drained from the soil, there remains a quantity of acid which must be neutralized by limestone.

The average increase of crops from liming is 84.3 per cent in certain districts. This is a return of \$2.29 for every dollar invested in the limestone used on the application. No farmer should pass up the benefits that accrue from spreading lime. It is easy to determine, by the litmus test, if the soil needs lime. The spreading of the lime can be accomplished with the aid of distributors which can be attached to any farm wagon by merely removing the end gate.



THE SUN IS SHINING AGAIN

Trees Damaged By Ice Storms May Be Repaired

Department of Agriculture Gives some Timely Information on Rebuilding Injured Orchards

THE best thing to do with apple, cherry and other fruit trees which have their branches broken down or split and injured by snow and ice, is first, to give them a very careful pruning, and second to use, as far as possible, methods of tree surgery to enable them to repair and outgrow the injury. This damage being done just ahead of the spring pruning season gives an opportunity to do the pruning and repair work before the advent of warm weather and before the wood rot fungi can enter or seriously spread in the wounds and scars.

The pruning of an injured fruit tree with part of its branches broken out requires more cutting and more skillful pruning than an ordinary normal tree. Each tree presents more or less an individual problem, depending on how severely it is injured. When one side of the tree has been badly smashed, the other side may require more than normal heading back to attempt to balance the future top, at least eventually. Sometimes long, slender branches, have escaped, and these likewise require more heading back, and this may be needed a second and third year before the top of the tree can be shaped into anything like the normal. Water sprouts on the stubs of branches which in ordinary pruning would be removed, should be mostly left on an injured tree. Individual water sprouts properly located to form new branches may be selected, headed back slightly if too long, and encouraged to grow into new limbs. Stubs from six inches to a foot or more in length should not usually be sawed off on these crippled trees if they are in the right location for future framework branches. The ragged ends should be neatly sawed or smoothed with a knife and the stub left to throw a mass of sprouts, as it usually will do if the top has been pretty generally taken out or removed by breaking and pruning.

Dehorning or pruning the main branches back to stubs is often purposely practised by orchardists to renew the top, and essentially the same methods can be applied in part, even though the dehorning is forced in this case. Whenever there are any small spurs or branches on the remaining stubs, they should be left to get out new twig growth promptly.

While abnormally slender, high branches or extra long lateral branches may require heading in to balance up the tree, it is well to leave as much as possible of the top and not try to do all the balancing up and heading back in a single year. It will take at least three years to build a new head on a ten-year apple tree which has been badly broken up. In an apple tree with a badly smashed top, let all or nearly all the sprouts grow the first year so as to get out as THE U. S. Department of Agriculture has again demonstrated its great usefulness to the farmers by issuing complete information on how to repair fruit and shade trees damaged in the great ice storm which wrecked many orchards in Michigan and Wisconsin the week before last. This information is given in the accompanying article. Orchardists who follow the instructions carefully will be able to repair a good deal of the damage which has been done.— Editor.

much new foliage as possible and preperly feed the root system of the tree.

Such broken trees need special extra pruning for at least two or three years after the damage is done. A new head in part or whole has to be rebuilt on the tree. During the second year, certain sprouts properly located, and if possible the strongest should be selected for main framework limbs, headed back to a reasonable height to make them fork out and their near-by competitors either cut out entirely or temporarily headed back to a lower level perhaps to be removed later. The proper number of main framework branches is made, the trees are likely to grow too thick and bushy. In the same way the branches which were left after the original damage may be gradually cut back and thinned out until they fairly well balance up with the new branches.

TREE SURGERY METHODS SUGGESTED

Trees with split forks or large wounds made by branches being broken out, tearing and stripping of bark and wood from the main branch or main trunk, and trees with their tops smashed down beyond recovery present problems of tree surgery not covered by ordinary or extraordinary pruning. Each case requires more or less special treatment. A few types of repair work may be mentioned:

Young fruit trees under six years of age, or even older when they are not more than three or four inches in diameter, which have their whole top broken out and perhaps split at the main forks, can often be brought back into good shape by sawing off the trunk at the highest available point, at an angle of about 45 degrees, even though this leaves a trunk not more than six inches high, and the cut end painted. Apple trees, especially, will sprout very profusely if the root system and trunk are sound and all the sprouts should be allowed to grow until the longest are a foot or eighteen inches in height. In late spring one of the best located sprouts

should then be selected and the growing tips of all the others should be pinched or clipped off. A second pinching may be done a month later. A year later the sprout selected to form the new trunk may be headed back slightly at about the point where the new head is desired, and all the other sprouts trimmed off closely. At that time the stub should be re-cut beginning from onehalf to an inch above the new stem and sloping downward at an angle of 45 degrees from it. This should then be painted and kept covered until it is healed. With the entire root system behind the new trunk, it will grow into a new tree at a surprisingly rapid rate.

Essentially the same principles may be applied to growing new branches from the stubs mentioned above in the top of the tree. A temporary cut is first made just below the branch and then after the first year's growth a permanent cut just beyond a twig which is to make a future framework limb. It is not often necessary in this case to do summer pinching and it may be desirable in the later pruning to leave some of the weaker lateral sprouts for future fruiting limbs instead of stripping them all off as described for training up a new trunk. Forks which have split down and even bent over so that the branches touch the ground, but with the wood and bark still intact and not too badly splintered, can be pulled up with ropes and bolted back into place, using one or more bolts inserted according to the usual tree surgery methods described in Farmers' Bulletin 1178, "Tree Surgery," which deals with the general problem of repairing forest, shade and ornamental , trees. This bulletin can be obtained free on application to the Division of Publications, Department of Agriculture, Washington, D. C. It is especially desirable to prune back the tops more than normally of such supported branches for the first year or two, and usually that means balancing up-the whole tree by pruning the top to correspond. Another precaution which will help greatly consists in supporting these branches by strong wires the size of ordinary fence or clothes line wires run across the inside of the tree and meeting in the center. The branches can be drawn together tightly and temporarily supported by ropes placed around them while working but the permanent wires should never pass around a branch. They should be inserted in screw eyes, screwed firmly into the wood on the inside of the branch with the eye left in a vertical position.

PROPER METHOD OF TREATING WOUNDS If the branches are broken down beyond recovery, hanging only by splintered wood and bark, or in case of (Continued on page 17)

Sudan Grass Valuable as a Temporary Pasture and Hay Crop

Will you let me know through your paper about Sudan grass? Could someone tell their experience with it? Am thinking about putting in 9 acres this summer but would like to know something about it, whether all stock will eat it or not.—I. Z., Vieksburg, Mich.

SUDAN grass is a high yielding, quick growing annual crop valuable, for both hay and pasture. As a hay crop it has a little greater feeding value than timothy and when a temporary pasture is needed Sudan is practically the only crop that can be sown during May and furnish abundant pasturage during July and August, when Kentucky blue grass or June grass is in the resting stage.

All classes of livestock do well on Sudan grass pasture. On the Woodbury Farm at the Michigan Agricultural Experimental Station, Sudan grass was sown on light sandy loam soil May the twentieth. The field furnished pasture from the middle of June until the first of October at the rate of two head of horses per acre. Sudan grass being related to the sorghums is just sweet enough to be quite palatable.

The question is sometimes asked whether Sudan grass is ever poisonous. The United States Department of Agriculture reports that only three authentic cases are known. Caution should be exercised in pasturing Sudan that has been severely injured by drought or frost, since the injured plants might contain sufficient prussic acid to cause poisoning. Thousands of acres of Sudan grass are pastured yearly in the United States and since only three authentic cases have been found it does not seem likely tha there is much danger. No symptoms were noticed at the Experiment Station the past seaBy C. R. MEGEE Research Associate in Farm Crops, M. A. C.

Average Constitutents					1.1.1	
Feed	Ash	Protein '	Crude Fiber	Nitrogen Free Extract	Éther Extract	
Hay		and the second				
Sudan grass	8:6	10:2	29:9	.49:9	1:8	
	7:7	9:0	32:6	47:7	3:0	
Timothy	6:2		32:3	50:6	3:1	
Millet	8:8		30:1	48:3	3:0	
Alfalfa	9:7		29:6	40:5	2:8	
Red clover	7:9	15:6	27:7	44:9	3:9	
Cowpeas	14:3	19:4	22:7	40:5	3:1	

son and part of the season was quite droughty. When cut for hay Sudan has about the same feeding value as timothy and the yield secured is usually greater than from any other annual crop adapted to Michigan conditions. The following table shows the relative yield of Sudan grass as compared with other annual crops over a period of three years.

COMPARATIVE YIELDS

The comparative yields of Sudan grass and other annual crops secured by the Michigan Agricultural Experiment station are as follows: Three year average yield (1919 '20 '21) in tons of air dry hay per acre: Sudan grass, 3.33; Golden millet, 3.25; Japanese barnyard millet or billion dollar grass, 3.22; Soy beans, 2.67; Hungarian millet, 2.48; common millet, 1.94; oats and vetch, 1.99; oats and peas, 1.78.

Sudan grass does best when sown on a well prepared corn soil about the middle of May at the rate of from twenty to twenty-five pounds of seed per acre. The ordinary grain drill set to sow two pecks of wheat will sow approximately twenty-five pounds of Sudan grass seed per acre. In southern Michigan it may be possible to secure two cuttings of hay when the season is quite favorable. Usually, however, one crop of hay and considerable second growth for either pasture or plowing under is all that is secured.

The accompanying table from the United States Department of Agriculture, Bulletin No. 981 shows the relative composition of Sudan grass, millet, timothy, alfalfa, red clover and other grass and legumes.

Sudan grass is gradually taking the place of millet in this state. A few points of comparison may be of interest. The yield secured from Sudan grass is usually higher than that from the millets. Sudan grass is considered a safer feed than millet. Considerable more second growth is secured from Sudan grass than from millet.

Sudan grass is not an expensive crop to sow since seed for an acre only costs from a dollar to a dollar and a quarter. Sudan is not a leguminous crop and like millet and sorghum is somewhat hard on the land.

March 11, 1922

Northern Mich. Swaps Stories on Biggest Storm

Upper Half of Lower Peninsular Slowly Recovering from Worst Sleet and Snow Storm in History

THE "Big Snow" of the Yukon country which James Oliver Curwood describes so graphically in his "Nomads of the North," has found a rival in the great blizzard and sleet storm which struck the upper half of the lower peninsula on Feb. 21st and raged without ceasing for three

poles, stripping trees, imprisoning farm families and providing endless topics for conversation and comparison with great storms of other years. For the past two weeks all the "Old Timers" of the district have been wagging their heads and saying, "I remember when, and then launching into stories of other famous storms when they were young and delighted to tussle with the blizzard.

The recent storm had many peculiar and unusual characteristics. From Howard City north to the Grand Traverse region the atmospherical disturbance manifested itself in rain and sleet. Farther to the east where the temperature was lower a howling blast piled the snow in drifts six to ten feet deep in many unprotected places. Northwestern Michigan fought ice,

northeastern Michigan snow, and it was a guestion which had the biggest fight on its hands. The damage from the snow storm was slight; but the sleet wrought havoc which years cannot repair.

The fine sleet clung to everything it struck. Trees and telephone wires were coated so heavily with ice that in many instances they crashed to the ground entailing enormous loss. Many village streets and country highways were blocked with tangled masses of telephone wires, shattered poles and branches. Some idea of the weight of the mantle of ice may be gained from the story that a piece of ordinary telephone wire six feet long weighed with its crystal coating over 36 pounds. "Barbed wire fences were so coated with ice," writes Wm. A. Jenkins, one of M. B. F.'s Wexford county reporters, "that they looked like woven wire and woven wire fences were solid ice." Buildings were also encased with the ice and barn doors had to be cut open with axes. Fruit and shade trees were stripped of their

branches as though with a pruning knife, and now stand like naked poles bearing a marked days, paralyzing traffic, demolishing telephone resemblance to the pictures we have seen of the



Scene near Evart, Osceola county, following worst sleet storm in history of northern Michigan. Thousands of telephone poles in this and other counties were laid to the ground by the weight of the ice. Shade and fruit trees also suffered severely. Above photo submitted by Mrs. Elizabeth Adams, M. B: F: crop reporter for Osceola county.

devastated war areas of northern France. The only thing which prevented irreparable damage to the entire western fruit belt was the absence of high winds. As many farmers sorrowfully looked upon their ruined orchards, many others stood with abated breath and watched the branches of their fruit trees bend lower and lower, fearing every moment that a wind might set them swaying and breaking. But in most of the affected counties the rising temperature melted the ice before any great damage was done. The orchards of the Grand Traverse region suffered little if any damage, but to the south and west the loss was great.

Railway, telephone, telegraph and electric lighting companies suffered enormous losses. Towns on the G. R. & I., from Cadillac north were without train service for over a week, the

rails being so coated with ice that it was impossible to run trains over them.

Farming communities were entirely isolated for days. Farmers who happened to be in town when the storm began were obliged to remain until it was over. But after the storm was over travel was a comparatively easy matter as the

snow was so heavily crusted that it was possible to drive teams over it almost anywhere.

EAST GETS SNOW

The central and eastern sections of northern Michigan escaped the destructive sleet storm but wrestled for days with the worst snow storm in their history. At Alpena the total fall of snow during the three days measured over 15 inches while in many sections the snow drifted so high on street corners that persons in adjoining business places could not see over them. For several days all traffic on highways and railways wer discontinued: mail carriers were unable to travel their routes; schools were closed down and business was at pretty much of a standstill. Farmers were obliged to do their chores on snow shoes and some cross country

travel was done on skis. M. B. F. REPORTERS DESCRIBE STORM

Various descriptions of the storm are given by Business Farmer reporters. Dr. J. P. Houston, secretary of the Grand Traverse county farm bureau, writes as follows:

"The storm set in on Tuesday evening as a ne storm set in on ruesday evening as a snow storm and continued throughout Wedness-day as such until about 9 p. m. The snow fell like little pellets. Walking in it was like walk-ing in sand. It looked like coarse granulated sugar, and fell to a depth of about 8 inches. The character of the precipitation changed from time to time from snow to clock and then to roin and to time, from snow to sleet and then to rain and back again to sleet and snow. Everything was covered with ice two inches thick. The temperature changed rapidly dropping to zero the cond day of the storm (Continued on page (Continued on page 16)

Show Father a Thing or Two about Farming Michigan Farm Boys

/TO recount all of the splendid achievements of the farm boys and girls of America in their elub projects would be a quite impossible task, because they are so many. It is enough to say that thousands of boys and girls have performed feats of production which have astounded some of the older generation and will be the foundation stones.for successful farming Only one state in the union exceeds careers. Michigan in the number of boys and girls enrolled in club projects. And what they have accomplished, in fruit canned, corn, beans and potatoes grown, garments made, pure bred livestock raised, etc., is something truly to marvel We have never seen it estimated but we at. presume that the number of quart cans of fruit

put up by Michigan club girls would, if laid end to end, encircle the earth several times or thereabouts, that the corn, beans, potatoes and live stock produced would feed a large city for a long period of time, and that the garments made would clothe all the naked little children of Armenia. This may be slightly exaggerated, yet really the total result is enormous.

Moreover, what some of these farm boys have done from a very small beginning has made their dads just a little bit jealous of their own reputation as farmers. No mere farmer can produce 140 bushels of corn or 700 bushels of potatoes or 50 bushels of beans to the acre, or take a little runt of a pig or a wobbly legged calf and make it into a State Fair prize winner. It takes a boy club member to do that.

Competition among the club exhibitors at recent county and state fairs has been very keen and in more than one instance has a freckled-faced farmer boy grinned from ear to ear as the judge steped up and pinned the "blue" on his calf in competition with the calves of hoary-headed exhibitors.

MACOMB BOY GETS BANKERS' CUP

One of the proudest boys in Michigan today lives just a little way from the Business Farmer office. His name is Quentin Friedhoff, of Warren, Mich. And he's proud because just a short time ago State Club Leader Ray Turner stopped at the Friedhoff farm home and left in Quentin's arms the big beautiful loving cup which the State Bankers' Association offers each year to the state club winner in corn growing projects. This is the second time the cup has come to Macomb county.

Quentin produced 73 bushels of corn from a

half acre at a total cost of \$23.60. His cost items included plowing, harrowing, spading, manuring, (\$2.10); hoeing, (\$1.60); planting (his own labor, 25c); cultivating, (his own labor, 80c); gathering corn, (\$2.20); rent of land (\$2.50); fertilizer, (172 lbs, \$2.90); manure, (4 loads, \$8.75); cost of seed, (\$2.50). The total value of the seed and common corn produced from the half acre was \$56.45 and the value of the fodder was \$17.28. The actual profit on the half acre was \$50.13.

"HOW I MADE MY CROP OF CORN"

Quentin describes his corn growing venture as follows:



Club members taking their first lessons in stock judging.

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SUNFLOWERS FOR SILAGE SUNFLOWERS FOR SHAGE I am interested in the growing of sun-flowers for slage. Would it be advisable two-thirds corn in the same row or would it be better to plant them two rows of corn and one row of sunflowers? How much sunflower seed must be sown per acre, also what effect has frost on them at planting time? Do you know where seed can be secured?—H. B., Michigan. In the meinstite of Unpace Devinsu

In the majority of Upper Peninsucounties sunflowers give better results than corn while in the Lower Peninsular sunflowers are advisable only on muck soils that are frosty, and occasionally on droughty, infert-ile soils. On land that will pro-duce good corn, it has not yet been shown that sunflowers are a compet-Itor.

In planting sunflowers and corn mixed it is usual to plant two quarts corn, mixing the seed theroughly. Whn planting alone from four to six quarts of sunflower seed is nec-essary. The Russian variety gives best yield. Seed can be secured from the Russian be secured from the Farm Bureau Seed Department, Lansing, Mich., and the S. M. Isbell Seed Company of Jackson, Mich.

The sunflower is very resistant to frost and will thrive at an optimum growing temperature which averages at last ten degrees below the best temperature for corn.—J. F. Cox, Professor of Farm Crops, M. A. C.

WHERE ARE YOU JOHN?

I would like to have you help me locate through your Farmers Service Bureau or give any information con-cerning the whereabouts of Joe Har-mon. He was last heard from in 1909 The winter of 1908 he work-1909. The winter of 1908 he worked in a logging camp near Cadillac and in the spring word was received that he was on his way to the south (place not known). He was at that time in Kalamazoo. He is thought to have a brother in Caledonia, Mich. but name is not known. Any in-formation through these columns will be greatly appreciated.—J. H., Lake Odessa, Mich.

EFFECT OF CHANGE IN OCCUPA-TION DEPENDS ON POLICY

EFFECT OF CHANGE IN OCCUPA-TION DEPENDS ON POLICY In the year 1908 Mr. — of Cli-max took out a policy for \$400 in the Fidelity Health and Accident Co., of Benton Harber, At that time-he was in the greecery business in Climax. His monthly premium was \$1,35. In about 8 years he went out of the greecry busi-ness and went to draying and farming. Until last fall he was hit and killed by train while crossing track with his car. The insurance company sent their agent to settle with his wife who teld her as he had changed is occupation and had not notified them. he could only allow her \$200 on the policy. She thinking half a leaf better than none, accepted it and gave up the policy. He had always paid his premiums to their agent at Climax who had never said anything about him changing his occupation. Do you think the other \$200 can be collected? It looks to me like a crawl out pure and simple. —J. C., Scotts, Mich.

liability of the company without a copy of the by-laws of the company or whatever regulations were in force at the time you took out the policy. The general rule is that if a change of occupation does not increase the hazard it does not forfeit all or any portion of the policy. If the regulations require that the insured shall notify the company of any change then he would be bound by such regulation.—Legal Editor.

TEST SOIL FOR LIME NEEDS

Can you please tell me how to test soils to determine whether they need lime or not?--L. W. F., Leslie, Mich. There are several tests for lime needs of a soil that a farmer can make at his home. The standard one is the use of litmus paper and meistering the soil with either rainmoistening the soil with either rainwater or distilled water which may be obtained from a drug store or garage. In making this test the lit-mus paper should be carefully plac-ed in the soil and the water poured upon this soil in sufficient quantity to thoroughly moisten it. The paper should remain in contact with the soil about 10 minutes. Upon removing if the blue litmus paper has changed to a pink color it may be concluded that the soil is deficient in lime. Care must be taken in the selection of the distilled water, that is it must not be contaminated by acids. This can be determined by placing the blue litmus paper in con(A Clearing Department for farmers' every day troubles. Prompt, careful attention given to all complaints or requests for information addressed to this department. We are here to serve you all inquiries must be accompanied by full name and address. Name net used it so requested)

tact with it. If acid the blue color will change to pink.

As a general proposition it is better for the farmer to send his sample of soil to the county agent or to the Agricultural College and have it tested.—M. M. McCool, Professor of Soils, M. A. C.

EXEMPTION FROM TAXATION

EXEMPTION FROM TAXATION I served sixteen mentns in the World War. I paid taxes on my land during that time and since. I am told that world War veterans are exempted from taxes. Is this true?—G. F., Millersburg, Mich. Can I get exempted on 80 acres of wild land which I bought last spring and built a house on and a stable and cleared 12 acres. Our, supervisor says everybedy has to pay taxes. What is the law?—Wm. D., Millersburg, Mich. World War veterans are not ex-empt from taxation as such. If they own cut-over land, they may be ex-empt as described below or if they

empt as described below or if they have a wood-lot on their farms it may be exempt from taxation under certain condition.

Mr. D., you can tell your super-visor that he has another guess com-ing. Under the Michigan law you ing. are entiled to exemption from taxes for five years. The law is as follows:

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STEP UP, ALL YOU LONELY BACHELORS

Mrs. R. E. B. is a lonely widow of 28 summers who wants to corre-spend with some lonely bachelor or widower. Name and address will be given to all interested parties by ap-plying to Editor, Business Farmer.

NO RIGHT TO TRESSPASS

NO RIGHT TO TRESSPASS I have a small lake on my farm and get into an argument every few days as to whether I have the right to stop people from crossing farm to get to this lake. There is no road to the lake and never has been one. Lake has inlet and outlet naturally. Would like to know the law regarding this.—F. W., Elm Hall, Mich. Persons have no right to cross your farm to reach the lake. Post your farm against tresspassers and

your farm against tresenassers and have them arrested .---- Editor.

KUDZU vs. ALFALFA What is Kudzu? Is it better than alfalfa?—F. T. M., Metamora, Mich. Kudzu is a leguminous plant imported from Japan, which makes a viney bean like growth. This crop has given excellent results for forage purposes in southern states but it has not been demonstrated as yet that it is of much value in the north.

Kudzu failed to mature in our plats last year. Our stand was thin due to a poor start made from the roots which we secured from Florida. Kudzu is sometimes planted as a

vine to cover lattice-work and porch-es. In southern cities it has been

reported to have reached a length of sixty feet under such conditions. In the field, Kudzu sends out long runners which root at many points sending up shoots from two to four feet high.

Kudzu roots can be secured from Mr. C. F. Leach, Manager of the Cherokee Farms, Monticello, Fla.— J. F. Cox, Professor of Farm Crops, M. A. C.

PROPERTY RIGHTS OF WIFE

I would like to know if a married woman can buy a farm from a banker and hold it herself is she gets the deed in her own name. If my husband cut over a hundred cords of wood from my land could he charge me for clearing where he took the weed from? He sold the wood for a dollar and 50 cents a cord. Is there any way he can hold a claim on my farm? Mrs. T. B. K., Whittemore, R. 2, h. ...

A married woman has the right purchase a farm and take the title in her name. Unless she agrees to pay some price to the hus-band for cutting the wood and he had the proceeds from the sale of the wood, she would not be liable to her husband for the price of the cutting. There would be no way he could hold the wife's land for such a claim.—Legal Editor.

HOW MUCH WINE CAN I MAKE? Will you please tell us what the law is regarding the making of grape wine? How much does the law allow one man to make? Can he give it away by the gallon jug full? If a man knows of aneth-er man making more than the law al-lows and giving it away (if that is pro-hibited) and does not report it what is the penalty of the law for him?—Puzzled, Van Buran County. Mich, The Volstead act does not permit

The Volstead act does not permit anyone to make or possess wine, or other beverage containing more than one-half of one per cent alcohol. You can make all the wine you wish if it contains less than that much alcohol. Violations of this law should be reported to the State De-partment of Public Safety, Lansing, Mich.-Editor.

"BELL" TELEPHONE CO.

Will you please give me the address of the head man of the Bell Telephone Co.⁷ I knew of several places to write but I want only the headquarters or nothing. It is important that my letter should reach the right man for it means much to me if it gets in the wrong place. —Regular Subscriber.

The next time, "Regular Subscriber", you must give us your name and address. Otherwise we can't give you the information. You probably refer to either the Ameri-can Telephone & Telegraph Co., at 15 Dye St., New York, or the Michi-gan State Telephone Co., 1365 Cass Ave., Detroit. Both are erroneously called the "Bell" Telephone Co. Mr. Franz Kuhn, formerly a mem-ber of the supreme court, is now president of the latter company. — Editor.

PERSONAL PROPERTY CAN BE SEIZED FOR TAXES

Will you kindly inform me if they can sell your personal property to collect tax on land, and if so if this law would apply to party buying under land con-tract.—A Subscriber, Azalia, Mich.

Section 4043 C. L. provides that if any person, firm or corporation shall neglect or refuse to pay any tax assessed to him or them the township or city treasurer, as the case may be, shall collect the same ing such person, firm or corporation. No personal property is exempt from seizure by the officers to compel the peyment of taxes .- Legal Editor.

RURAL MAIL SERVICE

Our rural mail carrier stops a half mile from the poor roads then turns and goes back, leaving the mail for four boxes in one, where he stops. Should he do this? If not, is there any way to com-pel him to go as far as the peer roads and if so what legal steps must one take to do so?—N. J., Mountcalm County. Complaints against surgel mail do

Complaints against rural mail delivery service or carriers should be referred to the third assistant post-master general, Washington, D. C. -Editor.

NO LICENSE REQUIRED FOR MIDWIFE

My wife has a diploma, secured in Illi-nois, as a trained midwife. Would she be able to secure a license in this state? Must she pass an examination?—A. L. Mich. This state has no law which pro-

vides for the licensing of midw Consequently your wife would not be required to take any examination in order to carry on her profession

in this state. The law, however, provides that midwives shall file berth certificates the same as physicians; also admin-ister a prophylaxis to the eyes of the newly born within one hour after birth.—Michigan_Department of Health Health.

SHADE TREES ON PUBLIC HIGHWAYS

We are told that the new road law forbids the land owner from trimming a tree within 33 feet from the center of the road, without first obtaining per-mission from the commissioner of his dis-triet. Without which he is liable to fine. Is this one more step to rob the farmer of his constitutional rights or is it a bluff of the fellows who draw their sal-ary and wish to hold their jobs?—T. B., Van Buren County, Mich.

The law does not specify the distance from center of road at which trees may be trimmed without permission of the highway authorities. It says "it shall be unlawful to cut, destroy or otherwise injure any shade or ornamental tree or shrub growing within the limits of any public highway, without the consent of the authorities." The law is not aimed at those who have an appre-ciation of the value of shade trees but at those who don't .-- Editor.

HOW TO KEEP HONEY

Please tell me how to keep honey over whiter without its sugaring.—C. E. C., Millersburg, Mich. Honey is best preserved from

granulation by storing it in a room that is very warm and dry. I feel that I should call your at-

regardless of where it may be kept. Heat and dryness simply put off the change as long as possible.—B. F. Kindig, State Apiarian.

FOR RENT OF TRACTOR

FOR RENT OF TRACTOR Two farmers, A and B, each own about of acres of land. One of these farmer is intends to buy a Fordson tractor and the other farmer intends to rent owner is to furnish the tractor and its repairs only. The renter will pay the owner is to furnish the fuel and oil that the tractor uses while doing his farm work. What price should the owner harge the renter when the tractor is work on discing, and third for owner is to furnish different tractors work owner is to furnish the fuels of the owner is to furnish the pay owner owner is to furnish the pay of the owner is to furnish the owner is to furnish the pay of the owner is to furnish the owner is to furnish the pay of the owner is to furnish

if figuring the costs on this equipment and have selected figures which should be fairly representa-tive. However, if these do not ap-ply in the community in which the tractor is used, others can be substituted and the same method of figuring used. Starting with investment of about \$600 for tractor and equipment the following calculations are made:

Interest on investment at 6%,

\$36.00 per year. Depreciation based on 2,500 hours or 250 days (life of tractor) equals 395 divided by 2,500 equals .158c

per hour. Depreciation on equipment based on 10 years or life—205 divided by 10 equals \$20.00 per year. Since the tractor is used about

50 days per year and some of this equipment is used with the tractor practically all of the time the depreciation per hour for equipment would amount to \$20 divided by 500

which give 4c per hour. Taxes and insurance at 2c makes \$12 per year, adding annual charges of interest, taxes and insurance we have \$48. Adding hourly charges of depreciation on tractor equip-

ment and repairs per year we have 19.3c per hour. Assuming that the tractor is used 50 days per year the annual or overhead charges of in-terest and taxes amount to practic-ally \$1 per day or less, say 10c per hour. The total overhead and oper-ating charges then is 10c plus 19.3c equals 29.3c or say 30c an hour, which would be a fair charge for the use of tractor and equipment loan. If fuel were estimated at 16 gallons If fuel were estimated at 16 gallons per day at 14c a gallon and oil one gallon a day at 75c per gallon the cost would amount to \$3 per 10-hour day or 30c an hour. If \$3 a day were allowed for the operator then the total costs would be \$3 a day for equipment, \$3 a day for fuel and oil and \$3 a day for labor, mak-ing a total of \$9 per day-total costs not including an item for profit.

As we have given these figures it is easy to remember that about 1-3 of the cost goes for cost of trac-tor and equipment, 1-3 for fuel and

tor and equipment, 1-3 for fuel and oil, and 1-3 for labor. Now, It would seem that the most satisfactory arrangment which could be made between A and B would be for A to own the tractor and charge B for its use on the basis of the above figures or a set of figures arrived at in the same way. In case the tractor and equipment In case the tractor and equipment only is rented, then at least \$3 per day should be charged for its use. day should be charged for its use. In case, tractor, fuel and oil, and labor are furnished then \$9 a day should be charged for its use. It would seem that charges when put on a day or preferably an hour basis would be more satisfactory than on an acre-basis. The work plowing and dragging varies so greatly in hard ground in the sum-mer that it would be worth twice as much as in ground in ideal condition for spring plowing. If these figures do not seem to meet local conditions as I have sug-gested then taking into account, in-vestment, depreciation, repairs, tax-

vestment, depreciation, repairs, tax-es, insurance, fuel and oil, and la-bor, figures can be substituted which the parties think are fair and a cost arrived at.

arrived at. Where we have investigated the price for various kinds of work we find that the price for plowing var-ies from \$1.50 to \$2.50 per acre but since practically all of our figures are based on tractors at a higher price they would not be worth much in making an estimate in this case in making an estimate in this case. —H. H. Musselman, Professor of Farm Mechanics, M. A. C.

SOWING HUBAM

I wish to sow Hubam clover on some high land. This land contains much limestone and is in a very fertile condi-tion at the present time. I would like to know if the land should be limed in order for the seed to be a success. Would it be best to seed with a grain crop and if so what kind?—F. S. G., Onaway, Mich.

It is not necessary to apply lime in preparation for Hubam clover on in preparation for Hubam clover on land that contains limestone where clover ordinarily does well. On the other hand, it must be kept in mind that even land that was naturally supplied with limestone becomes acid on the surface after several generations of cultivation. Hubam is a lime loving plant and under such .

conditions from one to two tons of ground limestone should be applied. The safest way is to have the land tested for acidity. As to whether or not the crop should be seeded with a grain crop depends upon the use for which it is intended. If mid-sum-mer hay is desired Hubam should mer hay is desired Hubam should be seeded without a companion crop at the rate of from twelve to fifteen at the rate of from twelve to fifteen pounds of seed per acre on a clean, well rolled seed bed. The seeding should be made in April or early May. If late summer and fall pas-turage is desired or a cutting of hay in the fall the seeding may be made with oats or barley. A lighter planting of these crops than usual, not more than one bushel per acre, is advisable.—J. F. Cox, Professor of Farm Crops, M. A. C.

STATE REWARDS

What is the state reward on a gravel road 20 feet wide and accepted by a state inspector? We thing your paper O. K. and hope we can get all our neighbors to take it.—T. L. T., Genesee County, Mich.

Please be advised that Section 10 of Chapter 5, paragraph B, of the highway laws, provides that a gravel road consisting of a traveled track containing 8 inches of compact gravel shall merit a reward of 25% of the cost of such road, but in no case shall the reward exceed the sum of \$5,000 for each mile.—Harry H. Partlow, Legal Advisor, State High-way Department way Department.

ALFALFA KILLS THISTLES Will alfalfa kill Canada thistles? If not, what treatment would you recom-mend and what crop would you plant upon the land?—J. A. B., Owosso, Mich.

upon the land?—J. A. B., Owosso, Mich. Establishing a stand of alfalfa is one of the best ways of getting rid of Canada thistles. The several cuttings given the alfalfa crop each year and the crowding effect of the plants usually put an end to Canada thistles in two or three years. It may be necessary to lime your land in order to prepare the way for a good stand of alfalfa. If clover has not been catching well on it it almost certainly needs lime.

almost certainly needs lime.

almost certainly needs lime. Northern grown alfalfa seed should be planted, preferably the Grimm variety. Killing out with a good stand of alfalfa is the only way that I know of of getting rid of Canada thistles at a profit. Any other way is a costly procedure.— J. F. Cox, Professor of Farm Crops, M. A. C.

A NOT LIABLE TO C

A NOT LIABLE TO C A let a contract to B (verbally) to do the mason work for his house, B told A he would build him a fireplace (not in contract) if A would do a certain amount of tending mason which A did, When the time came to build fire place B hired C to help B build it. Now C does not seem to be able to get his pay from B and C says he will hold A for his pay.—Reader.

From your statement I am of the opinion that C has no contract with A and cannot hold him liable therefore. If, however, the steps to estab-lish a mechanic's lien for his sevices have been complied with, it might require knowledge of all of the facts to determine the liability.—Legal Editor.

= HORSESHOE PITCHING =

T IS OUR OPINION that the farm family oity folks and that horseshee pitching is skill as golf or tennis. The Business Farme r is encouraging township, county and state-wide championship games to find a Michiga n challenger for the national championship. We invite correspondence from those interest ed and will send a copy of the National Rules free on request addressed to Horseshoe Editor. The Business Farmer, Mt Clemens.

Horseshoe pitching is rapidly re-turning to its position as one of the leading national games. It is get-ting so that even metropolitan dailies report championship contests. The horseshoe editor discovered in one of these dailies recently a story on the world's championship series which was pitched the other day at St world's ched the other day at St. Petersburg, Fla. There were 32 con-testants and in order that all might see, a booster of the game built stands and charged no admission. The man who came through the series unbeaten and was proclaimed the national horseshoe pitching champion was Charles C. Davis of Columbus, Ohio. This name means little to the majority of you at pres-ent but if Michigan can produce a state champion—well—we may know more about him. During Farmers' Wook at the

During Farmers' Week at the

Missouri College of Agriculture the latter part of January, a tournament was played between the champions of the Missouri Farm Bureau Federa-tion and a picked team from the college. The following is an excerpt from an article sent out to the press sent out to the press by the college:

"Much interest has been created at the college by the Federation challenge and the iron pegs and regulation shoes are in readiness for the tournament. The match-es will be played at the livestock pavil-ion on the University Farm Wednesday and Thursday afternoons from 4 to 6, with a possibility that the finals will be carried over to Friday. "A sociability foursome, also, is to be

"A sociability foursome, also, is to be pitched on Friday by Governor Arthur M. Hyde, Hon, Jeweil Mayes, Secretary of the State Board of Agriculture, President Chester H. Gray of the Farm Bureau Pederation and Dean F. B. Mumford of the College of Agriculture in response to a personal invitation from E. H. Mo-Reynolds, executive secretary of the Federation.





42 Jeff Street, Lancaster, Wi

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What the Neighbors Say

ANOTHER VOICE PIPES UP WELL, Rube, you've got hit on the ivory just as I thought you would when you launched that boomerang on women's clothes. It is time you took to the tall timber. It sure warms the cockles of our hearts to hear you speak a good word for the ladies—God bless 'em--but look out for that plain farmer up in Ingham county. He seems to have a stout heart and he sure

nave a stout heart and he sure wields a wicked pen. The subject, "what shall women wear," along with politics and prohi-bition, has been in the spotlight ever since the world stood. Eve started it with her one-piece suit and from that day to this the path and from that day to this the path of history has been strawn with the cast-off styles of the frale of the specie. Puffs, Irills, ruffles, panta-lets, crinolines, bustles, pull-backs, sheath skirts, split skirts ad. lib. After all this, if the flapper wants to wear the new "nothing at all" on her lower extremities and almost as much on her upper extremities, why much on her upper extremities, why, so be it. And if the plain farmers want to wear their overalls "en rapport" or any other old way, so be it also. Better so than to be wrapped in the swaddling cloths of prejud ce or the winding sheet of

self righteousness. My dear Mr. "Plain Farmer," don't think the world is going to de-minition bow-wows because the girls minition between because the gains are rever ng to first principles. If thine eye offend thee—etc. Turn your back to the girls with the short skirts and open your Good Book and read therein-beginning with the first commandment-and the more you read the less you will care whether the ladies' stockings are rolled shamelessly just BELOW the knee or tied decorously with a stout cotton string just ABOVE the knee. If you thing the girl of today is not sufficiently clothed, wrap your man-tle of charity around her — and let it stay there. Place your hands on the handles of your plow and let them also stay there. We have made the world tolerably safe for the Republicans and Democrats, now let us make it safe for the flap-per and the farmer, for God made them both. I mean the flapper and farmer. Keep close to the side of your good wife and thank your lucky stars that your lot has been cast in the wholesome county of Ingham instead of the odoms and Gomorrahs we read so much about. Gomorrans we read so much about Just one parting word: Let us be careful how we draw the lines on personal matters. We, whose an-cestors fought and died for the glorious thing: "Liberty of Con-science!"—"Rhoda," Olivet, Mich. science!"—""Rhoda," Olivet, Mich. Speaking of "wicked pens" we men folks aren't in it with the women. When a woman with a versatle tongue enters an argument all male contenders should instantly retire in good order. They will eventually retire in confusion if they remain long enough, "What fools we mortals be" to tell women how they should dress. The longer we talk the shorter their dresses become. Prudence forbids that we should continue the argu-ment. Anyway where is there a mere man who can match "Rhoda's" matchless wit or arrest her clever pen?—Editor.

CONSOLIDATION AND TAXES NOTICE in a recent editorial you

call for comment on the consoli-

L call for comment on the consoli-dated school question and throw your columns open without any criticism to the advocates of the system while you take your editorial pen and you sit up on your editorial perch and say the last word to the fellow who has backbone enough to enpose the system oppose the system.

Now from a purely educational standpoint I might say that the system may or may not have its ad-vantages. I am of the opinion, however, from what experience and per-sonal contact I have had with some young people who have gone higher young people who have gone higher than the common grades that the only object attained has had a ten-dency to make them heady and con-ceited and has set them at the cross roads where they have had their minds divided, thus spoiling their aim in life for the future years be-fore them. From an economic view fore them. From an economic view in a time like this, especially, I think that consolidation of schools is a fool move.

What is to become of our country schools that dots our county over? Oh, you say sell them, junk them,

do what you like with them. Sounds foolish don't it?

Do you think that you are going to succeed in making people believe that consolidation is a cheaper method of education? Not all, no sir. To scrap our country schools and build immense consolidated schools all over the county and keep up a, transport system to convey children these schools is no small undertaking and a very expensive one.

If the rate of taxation continues with its present strides the state will own a lot of our Michigan farms before many years for the land won't keep the owners on them and pay the tax, nevertheless there is a bunch of fellows all over our state bunch of fellows all over our state who are on the public payroll, para-sites I call them, who persist in every line of propaganda for the further expense and burden of the taxpayer. I, for one, believe it is time to call a halt to stop this reck-less expenditure of the less expenditure of the sweat money of the average taxpayer. This reckless rushing on advocating measures which involve immense outlay with-out regard to the welfare and safety of the people who have to pay the bill is to me the height of folly. To-day there are vast numbers of taxpayers who are ruined or on the verge of it. Yet these new appro-priations and new measures are being taken up and advocated by papers and individuals without any regard to the final outcome. I will say this, that as I see it, Europe will soon be a heaver to live in compared to our America. I will say in conclusion he impartial in say in conclusion, be impartial in this school question and this tax problem. Give opponents to the problem. consolidated school the same voice you give the boosters for it and when you say you are in for lower taxes and will stand ready with your sleeves rolled up, ready to fight for lower taxation, be consistent and don't work for the very things that make for high. *axes all the time. —E. F. G., Avoc., Mich.

-E. F. G., Avocı, Mich. You infer that we are denying oppon-ents of consolidated schools the chance to present their views. Why? Haven't more letters been published in these columns against consolidation than for it? You infer that we are committed to consoli-dated schools. Again, why? Have we so stated? You ask us to be impartial We will be impartial as we alwe we have been so far as allowing every ader an opportunity to present his or her views. How many other papers can you name that are equally as impartial? But if you mean that we should not have vie ws and declare them we cannot accomodate you. We conceive it to be the duty of every individual and every publication to not only have opinions on public issues but

MUSINGS OF A PLAIN FARMER

GUESS I'll take a milk check and purchase a comfortable chair and sit out the act this chair and sit out the act this summer. I can move it around and it won't be much trouble to keep in the shade. Why should I sweat and grunt under an existence of this kind? Only to find at the end of each year my bank book shows mostin red. Better to rest up a year. Reserve my energy. Then when things get back to normal or sub-normal, pitch in and produce with all the power at my command.

Can I lay off for a crop season? Certainly! Why not? Am I not a farmer and my own master. Abso-lutely independent! Raise my own living and all these other things so nice in rural life. What if I should? I suppose my creditors would say, "Why you poor man, you look tired and worn. I am glad to see you tak-ing a rest." And of course my neighbors would come over and pull the weeds and milk the cows and do

the weeds and mink the cows and do other little odd chores. Bring me cigars and other dainties. And my good """e, bless her. She would carry my meals to me. Per-haps within throwing distance. She is very ford of non-producers. Very

haps within throwing distance. She is very fond of non-producers. Very very fond! I wonder if the general public would call me lazy or a dreg or something else? Surely not. My pride would not suffer, all would be well and I would put on flesh. I'll see hew I feel when the frost gets out. This plan of setting in the shade looks good. If it will work.—A. P. Ballard.

If it will work. A. P. Ballard.

to express them. That's why you like the Business Farmer. We have not yet been able to gather sufficient information on consolidated schools to commend or condemn them, but we expect to have it before long. And we are going to get it from the people who live in consoli-dated school districts, including both the man who is against it and the man who is for it. And we shall no doubt be influenced by the attitude of the ma-jority of the farmers living in the dis-trict. Regardless of the merits of the contention everything involving an increase in taxes should for the time be avoided.—Editor.

THE COST OF GROWING BEETS AN a farmer raise beets at less than \$6.00 per ton? I hear this question discussed so often by L farmers who do not keep any re-cord of expense, or income, that I am tempted to send my experience on the beet problem for the year 1921, as taken from records kept on book put out by M. A. C. for farmers' use:

For six-acre field. Plowing, \$2 per acre___\$12.00 Discing, \$1 per acre____6.00 Dragging _____12.00 Rolling 6.00 Drilling and drill rent___ 4.00 Cultivating _____ 12.00 7.50 Lifting 47.60 Drawing _____ Use of land ____ 36.00

\$143.10

\$143.10 The field yielded 56 1-2 tons of beets after the company took out for labor, seed, house rent and in-terest, etc., approximately \$170.00, received check for \$141.96, which leaves me \$1.14 short of pay for my labor and land with a trifle over a 9-ton yield which I believe is about the average for Michigan.

Then I must say, no we cannot raise beets for less than \$6.00 per ton. I do not believe it would be wise ton. I do not believe it would be wise to figure for an average of the state for over 9 tons although I do not know what the average was last year. Perhaps some farmers could produce beets cheaper than I did. do not like to see the beet industry fail and I do not believe it will, but I would like to see it put on a safe beets for the farmers with just a basis for the farmers, with just a little profit for both farmer and company .--- Claude Stowe, Saginaw County.

County. When every farmer keeps a record of his costs as men in other lines of busi-ness do he will not be asking himself, "can I grow beets for \$5 or oats for 80 cents or potatoes for 50 cents." He will know that he cannot, The farmer who knows what it costs suffers much from the competition of the farmer who doesn't. Your figures indicate that you are an efficient farmer, and if the ef-ficient farmer cannot grow beets for \$5 a ton what hope is there for the ineffi-cient?--Editor.

A COUNTY CLERK ON TAXATION HAVE just been reading the letter of an "Old Subscriber" from

Macomb county, in the Feb. 11th issue of your paper, and while he may be looking through blue glasses to some extent, there is a whole lot of truth and sense in what he writes. I lived and worked on a farm all my life until elected to this office seven years ago, and I feel that the seven years ago, and I feel that the farmers, and the other taxpayers also, are not getting the worth of their money as too much of it goes for overhead expenses, useless jobs, and duplication of work. There are a good many examples that could be mentioned if I had time, but I shall only speak of one or two with which I am the most familiar. The so-I am the most familiar. The socalled uniform accounting system which the auditor general's office feels called on to defend so much feels called on to defend so much is one of these, and I notice that he does not say how many hundreds of thousands of dollars went to the big publishing houses nor what it cost for inspectors to run over the state and meddle with the county business, nor why it is not in use in Wayne county, nor what the tax-payer actually gets for his money. And some of the statements that are made are absolutely false at least so And some of the statements that are made are absolutely false at least so far as they apply to this county. and who gets it, and if fair service is rendered for the same. He does not care whether it is paid on a yel-low volucher, or a white one or whether the clerk's office uses one more typewriter ribbon than the treasurer's office does. And in road matters we have re-

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cently had orders to make the main-tenance reports every two weeks, although we only get our money from the state every quarter. It takes nearly as long to make one two-weeks report as th does for a quarter and inst so much more than quarter and just so much more time and more clerk hire in Lansing too. Also the state has an army of inspectors going over the roads all the time and last summer when some paving was done in this county they had a lot of young fellows who were hardly dry behind the ears to look after the work, and some of them did not know how to mix ce-ment to make a stable floor. The state started to build a bridge in this county last fall, and cold weather came before it could be finished, but there are several men who so there are a several men who go there once in a while and make a fire in the mixer, and a high-priced inspector who spends most of his time in town entertaining the ladies.

A great many people accuse the farmers of being opposed to good roads, but I do not believe there is a man in Michigan who is not in favor of them, but we do not see how all this useless clerk work and multiplied inspection is any benefit more liberal if they could see a larger proportion of their money going where they received some benefit from it.—B. L. Case, Gratiot County Clerk, Ithaca.

Well, well, it is something new to have a man in office speak right out loud about the waste of the taxpayers' money in public business. Seems as if we ought to have more men of that kind in office and mebbe we wouldn't have so much extravagance.—Editor.

CONSOLIDATION

THY is it that people in the rural W HY is it that people in the rural districts never know what they want until some one holding a good, lucrative office or position, or one who is looking for such, tells us what is good for us? It took 20 years to work out the "Good Roads System" but when the automobile industry took hold of it and speakers were sent to almost every rural gathering to tell what every rural gathering to tell what a good thing it was and what bene-fits farmers would derive from same, but nothing was said of benefits of instigators and promoters, all to help the poor Down-trodden Farmer. We all want the good roads, but not so much red tape. My 1920 tax receipt shows one-third of total tax to be highway. Add to this expense of highway department, via. high-way commissioner, deputy engineers, office help, fixtures, etc. Subtract this total from your state tax and add to your road tax and see the result-an octopus.

Now the same class of officials

THE MICHIGAN BUSINESS FARMER

are writing and talking consolidat-

are writing and talking consolidat-ed school, or concentrated power, which means taxation, what for? Take as an example—How many of the boys of our villages and cities with all the faculties and ad-vantages of a high school at their door, have attained a high school education? Think it over for your-self. Count them and see if you don't find a big percentage short the goal. find a big percentage short the goal. Then what will be the result in the country? You can't educate them all, neither can you build the fence so high as to stop those who have the disposition and will go over the top. Show me the statement today to compare with our Wash-ington, Lincoln and many others we might mention and compare facilities. Go with me to Ohio, or any place and investigate and you will get this answer, "It is an expensive school, expensive transportation, high salaried teachers, superintend-ents, etc." I got this from a teacher of 25 years' experience, now teach-ing in a consolidated school. "A good school but expensive and I con do schoel, but expensive, and I can do no more for a pupil than I could do in the rural school." You say he is a fogy, a has-been? Meet him. People settled the country, locat-d in different marks some in conte-

ed in different parts, some in center of town, some in the corner six miles from the center. Show us the justice of a school at the one's door and the other 6 miles away. Then say mothers must start her little children out to meet this convey-ance early in the morning. One minute late, go back home. Car trouble, driver half hour late, wait in zero weather. If you don't be-lieve this, investigate. Don't take someone's word who is working for self-aggrandizement or money—Sub-scriber, Maple Rapids, Clinton County, Mich.

PEPPER

M. B. F. just arrived. Read arti-clue "Adding a Little Pepper." GOOD FOR YOU! Keep on pepperng. For as well seasoned an old 'Sour Sass' as he must be it sounds ing. a little green, but then he probably belongs to that branch of the Pepper family known as "the long yellow." Certainly no one would take him for a sweet Pepper. He would most like-ly be a red pepper if he saw this, but we will try hard to see that he is well peppered with both "black and white" at the next election, if the fool killer doesn't get him. Yours for the pepper pot.—Mrs. M. Emer-son, Van Buren County, Mich.

We have derived much pleasure and profit from your honest weekly. And magazine is much enjoyed by all the members of our good sized family-Frank Timmis, St. Joseph County, Mich.



THE HIGH COST OF BANKING CCORDING to returns from A nearly 8,000 national banks re

porting to the Controller of the Currency, it costs these banks an average of \$59 a year to handle every \$1,000 of deposits. The rate varies all the way from \$40, the lowest, in California, to \$74, the highest, in Texas. This is certainly a rather steep overhead load on the business of the country the hanks acknow steep overhead load on the business of the country, the banks acknow-ledging the harvesting of a net pro-fit averaging \$27 on every \$1,000 of deposits over and above this cost of an average of 5.9 per cent. "It would be interesting to have an itemization of this 'cost of handling' deposits. How much of it goes for palatial marble banking houses mahogany furniture and ori-

houses, mahogany furniture and oriental rugs? How much to big sala-ries of decorative 'officers'—and how little to salaries of clerks and bookkeepers? "The percentage of profit seems

small. But it should be remem-bered that it is profit on other peo-ple's money. The deposits represent approximately 20 times the banking capital involved, on which dividends of from 30 to 60 per cent are often paid, after setting aside to surplus or exceed the amount of the origi-nal capital. It is no wonder that bank shares command—when they are obtainable at all—premiums of anywhere from 100 to 1,000 per cent.

"During a recent congressional inquiry into agriculture, it was

brought out that agricultural credit banks in Germany, handling many millions of dollars' worth of loans, succeed in transacting their business at an expense cost of less than 2 per cent. in the face of this showing, the special congressional commission recommends an amendment to the Kenyon Rural Credits Bill, which is based on the successful German system—an amendment that proposes that the credits shall take the shape of deposits in the na-tional banks instead of being han-dled by co-operative organizations of the farmers themselves

"When Charles E. Hughes con-ducted the life insurance investigation that marked the beginning of his brilliant career and worked revolution in insurance method a methods, the premium-paying public was startled by the exposure of flagrant-ly extravagant expenditures for IOr overhead and 'incidentals' that increased the cost of insurance to the policy holder and diminished the security for his investment-all the way from 40 to 60 per cent. Perhaps a similarly fearless and efficient investigation of banking methods to-day would bring out similarly interesting disclosures.

"But where is there a Charles Evans Hughes capable of putting through so beneficial an inquiry into the actual costs, compared with the charges for banking service to the community?"-Dearborn Independent.



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and economy in building on the dairy farm. Fully illustrated with diagrams and pic-tures. Shows how to build barns, milk-houses, silos, icchouses, cooling tanks, paved barny ards, manure pits, water sup-ply systems, etc. Address office nearest





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(Continued from last week)

DURANT and Ribon did not re-turn until nearly noon the next day. They brought with them fresh meat of which Miki ate ravenously, for he was hungry. In an un-responsive way he tolerated ad-vances of these two. A second night he was left alone in the cabin. When Durant and Ribon came back again in the early dawn they brought with them a cage four feet square made of small birch saplings. The open door of this cage they drew close to the door of the cabin, and by means of a chunk of fresh meat Miki was induced to enter through it. Instantly the trap fell, and he was a prisoner. The cage was al-ready fastened on a wide toboggan and scarcely was the sun up when Miki was on his way to Fort O' God.

This was the big day at the carnival-the day of the caribou-roast and the fight. For many minutes Defore they came in sight of Fort O' God Miki heard the growing sound. It amazed him, and he stood up on his feet in his cage, rigid and alert, utterly unconscious of the men who were pulling him. He was look-ing ahead of them, and Durant chuckled exultantly as they heard him growl, and his teeth click.

"Oui, he will fight! He would fight he chuckled. now,"

They were following the shore of a lake. Suddenly they came around the end of a point, and all of Fort O' God law on the rising shelf of the shore ahead of them. The growl died in Miki's throat. His teeth shut with a last click. For an instant his heart seemed to grow dead and still. Until this moment his world had held only half a dozen human beings. Now, so suddenly that he had no flash of warning, he saw a hun-dred of them, two hundred, three hundred. At sight of Durant and the cage a swarm of them began running down to the shore. And were ' wolves, so everywhere there many of them that his senses grew dazed as he stared. His cage was the centre of a clamouring, gesticulating horde of men and boys as it was dragged up the slope. Women began joining the crowd, many of them with small children in their arms. Then his journey came to an He was close to another cage, end. and in that cage was a beast like himself. Beside this cage there stood a tall, swarthy, shaggy-headed halfbreed who looked like a pirate. The man was Grouse Piet, Durant's rival.

contemptuous leer was on his A thick-lipped face as he looked at Miki. He turned, and to the group of dark-faced Indians and breds. about him he said something that roused a guttural laugh.

Durant's face flamed red. "Laugh, you heathen," he chal-lenged, "but don't forget that Hen-ri Durant is here to take your bets!" Then he shook the two cross and ten red foxes in the face of Grouse

Piet. "Cover them, Peit," 'he Grouse cried. "And I have ten times more where they came from!"

With-his muzzle lifted, Miki was sniffing the air. It was filled with strange scents, heavy with the odors of men, of dogs, and of the five huge caribou roasting on their spits 15 feet over the big fires that were built under them. For ten hours those caribou would roast, turning slowly on spits as thick as a man's leg. The fight was to come before the feast.

For an hour the clatter and tumult of voices hovered about the two cages. Men appraised the fighters and made their bets, and Grouse Piet and Henri Durant made their Piet and Henri Durant made then throats hoarse flinging banter and contempt at each other. At the end of the hour the crowd began to thin out. In the place of men and wo-men half a hundred dark-visaged little children crowded about the hildren crowded about the It was not until then that cages.

Miki caught glimpses of the hoards of beasts fastened in ones and twos and groups in the edge of the clearing. His nostrils had at last caught the distinction. They were not wolves. They were like himself. It was a long time before his eyes

rested steadily on the wolf-dog in the other cage. He went to the edge of his bars and sniffed. The wolf-dog snarled back. Henri, Durant dog snarled back. Henri Durant rubbed his hands exultantly, and Grouse Piet laughed softly. "Oui; they will fight!" said Hen-

"Ze wolf, he will fight, oui," said Grouse Piet. "But your dog, m'sieu, he be vair seek, lak a puppy, w'en

ze fight come!" little later Miki saw a white A man standing close to his cage. It was MacDonnell, the Scotch factor. He gazed at Miki and the wolf-dog with troubled eyes. Ten minutes later, in the little room which he had made his office, he was saying to

a young man: "I'd like to stop it, but I can't. They wouldn't stand for it. It would lose us half a season's catch of fur. There's been a fight like this at Fort O' God for the last fifty years, and I don't suppose, after all, that it's any worse than one of the prize fights down there. Only, in this case

"They kill," said the younger man. "Yes, that's it. Usually one of the dogs dies."

The younger man knocked the ash out of his pipe. "I love dogs," he said, simply.

"I love dogs," he said, simply. "There'll never be a fight at my post, Mac-unless it's between men. And I'm not going to see this fight, because I'm afraid I'd kill some one if I did."

CHAPTER TWENTY

T was two o'clock in the afternoon. The caribou were roast-ing brown. In two more hours the feast would begin. The hour of the fight was at hand.

In the center of the clearing three hundred men, women and children were gathered in a close circle about a sapling cage ten feet square. Close to this cage, one at each side, were drawn the two smaller cages. Beside one of these cages stood Henri Durant; beside the other, Grouse Piet. They were not bantering now. Their faces were hard and set. And three hundred pairs of eyes were staring at them, and three hundred pairs of ears waiting for the thrilling signal.

It came-from Grouse Piet.

With a swift movement Durant pulled up the door of Miki's cage. Then, suddenly, he prodded him from behind with a crotched stick, and with a single leap Miki was in the big cage. Almost at the same instant the wolf-dog leapt from Grouse Piet's cage, and the two faced each other in the arena. With the next breath he drew Durant could have groaned. What happened in the following half min-ute was a matter of environment With a swift movement Durant

ute was a matter of environment with Miki. In the forest the wolf-dog would have interested him to the exclusion of everything else, and he would have looked upon him as another Netah or a wild wolf. But in his present surroundings the idea of fighting was the last to pos-sess him. He was fascinated by that grim and waiting circle of faces closing in the big cage; he scruti-nized it, turned his head sharply from point to point, as if hoping to see Nanette and the baby, or even Challoner his first master. To the wolf-dog Grouse Piet had given the name of Taao, because of the exname of Taao, because of the ex-traordinary length of his fangs; and of Taao, to Durant's growing hor-ror, Miki was utterly oblivious after that first head-on glance. He trotted to the edge of the cage and thrust his nose between the bars, and a taunting laugh rose out of Grouse Piet's throat. Then he began mak-ing a circle of the cage, his sharp eyes on the silent ring of faces.

Taao stood in the centre of the cage, and not once did his reddish eyes leave Miki. What was outside of the cage held small interest for him. He understood his business, and murdunderstood his business, and murd-er was bred in his heart. For a space during which Durant's heart beat like a hammer. Taao turned, as if on a pivot, following Miki's move-ment, and the crest on his spine stood up like bristles. Then Miki stopped, and in that moment Durant saw the end of all his hopes. Without a sound the wolf-dog was at his opponent. A bellow

dog was at his opponent. A bellow rose from Grouse Piet's lips. A deep breath passed through the circle of spectators, and Durant felt a cold chill run up his back to the roots of his hair. What happened in the next instant made men's hearts stand still. In that first rush Miki should have died. Grouse Piet ex-pected him to die, and Durant ex-pected him to die. But in the last fractional bit of the second in which the wolf-dog's jaws closed, Mi¹ was transformed into a thing of living lightning. No man had ever seen a movement swifter than that with which he turned on Taao. Their jaws clashed. There was a sickening grinding of bone, and in another moment they were rolling and twisting together on the earth floor. Neither Grouse Piet nor Durant could see what was happening. They forgot even their own bets in the horror of that fight. Never had there been such a fight at Fort O' God.

The sound of it reached to the Company's store. In the door, look-ing toward the big cage, stood the young white man. He heard the snarling, the clashing of teeth, and his jaws set heavily and a du flame burned in his eyes. His breath came in a sudden gasp. "Damn!" he cried, softly.

His hands clenched, and he step-ped slowly down from the door and went toward the cage. It was over when he made his way through the ring of spectators. The fight had ended as suddenly as it had begun, and Grouse Piet's wolf-dog lay in the center of the cage with a sev-ered juglar. Miki looked as though he might be dying. Durant had op-ened the door and had slipped a rope over his head, and outside the cage Miki stood swaying on his feet, red with blood, and half blind. His flesh was red and bleeding in a dozen places, and a stream of blood trickled from his mouth. A cry of horror rose to the young white man's lij as he looked down at him.

And then, almost in the same breath, there came a still stranger the same cry

"Good God! Miki-Miki-Miki" Beating upon his brain as if from vast distance, coming to him a vast distance, coming to him through the blindness of his wounds, Miki heard that voice.

The voice! The voice that had lived with him in all his dreams, the voice he had waited for, and searched for, and knew that some day he would find. The voice of Challoner, his master!

He dropped on his belly, whin-ing, trying to see through the film of blood in his eyes; and lying there, wounded almost unto death, his tail thumped the ground in recognition. And then, to the amazement of all who beheld, Challoner was down up-on his knees beside him, and his arms were about him, and Miki's lacerated tongue was reaching for his hands, his face, his clothes.

'Lliki-Miki-Miki!' Durant's hand fell heavily upon Challoner's shoulder. It was like the touch of a red-

hot iron to Challoner. In a flash he was on his feet, facing him. "He's mine," Challoner cried,

trying to hold back his passion. "He's mine you—you devil!"

And then, powerless to hold back his desire for vengeance, his clenched fist swung like a rock to Durant's heavy jaw, and the Frenchman went to the ground. For a moment Challoner stood over him but he did not move. Fiercely he turned upon Grouse Piet and the crowd. Miki was cringing at his feet again. Pointing to him, Challoner cried loudly, so all could hear: "He's my dog. Where this beast got him I don't know. But he's mine. Look for yourselves! See-see him lick my hand. Would he do that for him? And look at that ear. There's no other ear in all the north cut like that. I lost him almost a year ago, but I'd know him heavy jaw, and the Frenchman went

(415) 11

among ten thousand by that ear. By God!—if I had known——" He elbowed his way through the breeds and Indians, leading Miki by the rope Durant had slipped over the dog's head. He went to Mac-DonneM, and told him what had hap neared. He told of the preceding

breeds and industs, icaning and a the rope Durant had slipped over the dog's head. He went to Mac-Donnell, and told him what had hap pened. He told of the preceding spring, and of the accident in which Miki and the bear cub were lost from his cance and swept over the waterfall. After registering his claim against whatever Durant might have to say he went to the shack in which he was staying at Fort O' Go. — An hour later Challoner sat with Miki's big head between his two hands, and talked to him. He had bathed and dressed his wounds, and Miki could see. His eyes were on his master's face, and his hard tail thumped the floor. Both were ob-livious of the sounds of the revel-lers outside; the cries of men, the shouting of boys, the laughter of women, and the incessant barking of dogs. In Challoner's eyes there was a soft glow. — "Miki, old boy, you haven't forgot-ten a thing—not a dam' thing, have you? You were nothing but an onery-degged pup then, but you didn't forget! Remember what I told you, that I was going to take you and the cub down to the Girl? Do you remember? The Girl I saw was an angel, and 'd love you to death, and all that? Well, I'm glad something happened — and you didn't go. It wasn't the same when I got back, an' she wasn't the same, Miki. Lord, she'd got married, and had two kids! Think of that, old something happened — and you didn't go. Three years in God's Country—up here where you burst your lungs just for the fun of trink ing in air—changed me a lot, I guess. Inside a week I wanted to back, Miki. Yes sir, I was sitk to come back. So I came. And we're going with me up to that new Post the Company has given me. From now on we're pals!" — CHAPTER TWENTY-ONE T was late the night of the big feast at Post Fort O' God that

CHAPTER TWENTY-ONE CHAPTER TWENTY-ONE T was late the night of the big feast at Post Fort O' God that MacDonnell, the factor, sent for Challoner. Challonier was preparing for bed when an Indian boy pound-ed on the door of his shack and a moment later gave him the message. He looked at his watch. It was eleven o'clock. What could the Factor want of him at that hour, he wondered? Flat on his belly near the warm box stove Miki watched his new-found master sneehe wondered? Flat on his belly near the warm box stove Miki watched his new-found master spec-ulatively as he pulled on his boots. His eyes were wide open now. Chal-loner had washed from him the blood of the terrific fight of that afternoon.

'"Something to do with that devil of a Durant," growled ChaMoner, looking at the battle-scarred dog. "Well, if he hopes to get you again, Miki, he's barking up the wrong tree. You're mine!"

Miki thumped his hard tail on the floor and wriggled toward his mast-

floor and wriggled toward his mast-er in mute adoration. Together they went out into the night. It was a night of white moonlight and a multitude of stars. The four great fires over which the caribou had roasted for the savage barbe-cue that day were still burning brightly. In the edge of the forest that ringed in the Post were the smouldering embers of a score of smaller fires. Back of these fires were faintly outlined the gray shad-ows of teepees and tents. In these were family outlined the gray shad-ows of teepees and itents. In these shelters the three hundred half-breeds and Indians who had come in from the forest trails to the New Year carnival at the Post were sleeping. Only here and there was there a movement of life. Even the dogs were quiet after the earlier hours of excitement and gluttony.

Past the big fires, with their huge spits still standing, Challoner passed toward the Factor's quarters. Miki sniffed at the freshly picked bones. Beyond these bones there was no sign of the two thousand pounds of flesh that had roasted that day on the spits. Men, women, children and dogs had stuffed themselves until there was nothing left. It was the silence of Mutai—the "belly god"— the god who eats himself to sleep each night—that hovered strangely even flips Port of Fort O' God three

over this Post of Fort O' God, three hundred miles from civilization. There was a light in the Factor's room, and Challoner, entered with Miki at his heels. MacDonnell, the Scotchman Wass marking and disc Scotchman, was puffing moodily on his pipe. There was a worried look in his ruddy face as the younger man seated himself, and his eyes were on Miki.

"Durant has been here," he said. "He's ugly. I'm afraid of trouble. If you hadn't struck him-"" Challoner shrugged his shoulders as he filled his own pipe from the

Factor's tobacco.

"You see—you don't just under-stand the situation at Fort O' God." went on MacDonnell. "There's been a big dog fight here at New Year for the last fifty years. It's become a part of history, a part of Fort O' God itself, and that's why in my own fifteen years here I haven't tried to stop it. I believe it would bring on a sort of—revolution. I'd wager a half of my people would go to another post with their furs. That's why all the sympathy seems to be with Durant. Even Grouse Piet, his rival, tells him he's a fool to let you get away with him that way. Durant says that dog is his." McDonnell nodded at Miki, lying the last fifty years. It's become a McDonnell nodded at Miki, lying at Challoner's feet.

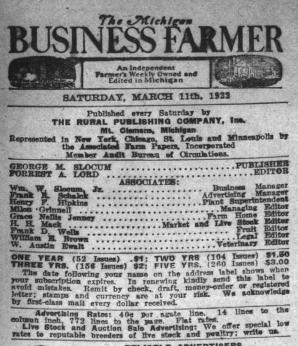
(Continued next week)





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"The subjects of every state", wrote Adam Smith, the world's greatest political economist, over two hundred and fifty years ago, "ought to contribute towards the support of the government as nearly as possible in pro-portion to their respective abilities; that is, in proportion to the revenue they respectively enjoy under the protection of the state". Whom shall we believe, Percy or Adam?

Learn a Little Every Day

WHEN the early explorers first set foot upon this continent they had no more idea than a jack-rabbit what it was. Four hundred years have come and gone and still there are a lot of intelligent American citizens who know little more about the North American continent than either the explorer or the jack-rabbit. Take Alaska, for instance, that land of "ice and snow" which Uncle Sam got in a "hoss trade" with Russia. Who would ever think of going up there inside of the Arctic circle to farm? Well, it appears that some six hundred imbeciles have started homesteading in Alaska and grow most all kinds of vegetables, grain and small fruits. Uncle Sam has recently developed a new variety of potato for them which gives promise of yielding abundantly in that far northern elime. Last year's crops were planted about May 15th and the first killing frost occurred October 18th, long after many crops in some sections of United States had been frozen to the ground.

There are many other interesting things you ought to know about Alaska and the other countries of the globe. Let's go globe-trotting and learn a little something every week about this wonderful world and the universe in which it whitls.

Service for Farmers

C CARCELY a week had passed following) the great ice storm which swept northern Wisconsin and Michigan before the U.S. Department of Agriculture was out with detailed instructions to fruit growers on how to repair the damage to their orchards. To really ap-peciate the timeliness of this service one should bear in mind that only a very short time elapses before the trees will spring into life again and the wounds defy the healing arts of man. Orchardists who act promptly upon the advice of the Department of Agriculture can salvage many trees which may seem beyond repair, and save themselves thousands of dollars. Criticism of the Department of Agriculture fades away before this and other tangible evidences of its great usefulness to the farmer.

Keynote inquiry of the agricultural confer-ence: How are you going to keep 'em on the farm when everybody's down on the farmer?— Richmond Times-Dispatch.

We hope that Senator Pepper of Pennsylvania will keep out of the public eye as much as pos-sible.—St. Joseph Gazette.

RUIT and **ORCHAR** BDITED BY FRANK D. WELLS

THE NEGLECTED ORCHARD What should I do with a neglected orchard? The trees were planted twelve years ago, but look as though only about half grown. Quack grass is thick and the trees produce little er no fruit. One charry only remains of what were plast-ed, the other trees are all apples. When and how should the orchard be sprayed; I want to get the trees into bearing if possible.--J. B.

Probably the trees are starving. First get some viger into the trees by supplying available plant food.

by supplying available plant food. If barnyard manure is to be had give the ground a good coat of it, as far out as the branches go, at least. If the whole surface can be covered, so much the better. There is no need to place it close around the trunk, as the feeding roots are farther out. In the spring, as early as the weather will permit, apply nitrot of sulphur, about half a pound to the tree, working it into the soil. This may be applied first and will be an available food before the mabe an available food before the manure is ready.

nure is ready. Cultivate the ground like a corn field till the middle of July, then sow a cover crop, using vetch, one of the clovers, or whatever legume is best suited to your locality. This will not only enrich the soil, but will check the late growth and force the tree to ripen its wood for wint-er. Get the trees to growing, then there will be something to produce there will be something to produce fruit. But little is to be expected from starved trees.

Something can be done to induce bearing when trees are full of vigor. Trees that are in a sod of long standing are usually made productive by a thorough plowing that will cut the roots near the surface, ac-companied by severe pruning of the top. The pruning may be done in late spring, followed by the plow-ing the first of June. In this way

some wonderful results have been obtained for the following year. Some fruit growers speak highly of girdling and if properly done it is effective. We have in mind some delicious apples, eight years old, which were girdled around the trunk a little below the first limbs, by taking out a ring of bark about threefourths of an inch wide, cutting clear to the wood, this was done about June 20, when the trees were full of sap. The following year these trees bore a bushel of apples each. The wound grew together, leaving

no apparent injury. If girdling the whole tree seems too much of a risk, similar results can be obtained by limiting the operation to some of the branches. By following this method some orchardists have made Spy trees bear when seven years old.

In spraying apples the first appli-cation is made in the spring before the buds open, preferably as late as possible before the leaves appear. A strong solution may be used then, about one part commercial lime-sulphur solution to seven of water. This is to kill the San Jose scale and germs of disease.

The second spray is put on just before the blossom buds open. This is a weaker spray, one to thirty-five, to which arsenate of lead is added at the rate of one pound to fifty gallons.

For the third application use the same formula after the blossoms be-

gin to fall.

Repeat about two weeks later. Repeat about the first of July.

Repeat about the first of August. If there is no scale the first ap-plication is often omitted, though is of especial value as a clean-up uch an ommission is doubtfu doubtful Such an economy.

The second spray is important for controlling the apple scab, which at-tacks blossoms as well as fruit. It also kills the early insects. The third spray is for the codl-ing moth and the scab, as are those

later.

APPLE MAGGOTS

Can you tell me how to kill apple maggots? They burrow all through the fruit and ruin it for any purpose. What spray would you apply and how often? -L, H., Thompsonville.

The apple maggot is the larva of a fly which appears in time to lay its eggs in the small fruit. The maggot that hatches burrows about 4111 the apple is ripe enough to fall, then leaves the fruit and goes into the ground, where it remains until another summer.

On account of its habits the maggot is safe from poison and the ily not affected by any of the insecti-cides, so far as has yet become known. Fortunately it does not spread rapidly. The fly seems to come from the ground and go direct to the tree above it.

The best means known is to gather the fallen fruit two or three times a week and feed to stock. A still better way would be to pick all the fruit before it is ready to fall and destroy it. That would mean a sacrifice of all the grop, but might be worth doing.

Chickens kept under the trees will pick up many of the larvae. Possibly the time will come when

beison gases will be used to kill the larvae in the ground. Have any of our readers any-thing to suggest regarding the con-

trol of this pest?

"HOW I DID MY GARDENING"

"Why not have it a real garden club, like they have in other counties?" This was the question asked by the teacher of the agricultural class of the Memphis school. It was decided to have it, if we could could.

could. April 23rd we organized, and are now a State Garden Club, the only one in Macomb county, with Miss Lena Hender-son as leader. My brother and I were given a plot of ground, to be divided between us. Upon measuring mine April 16th, I found that I had exactly one-half acre. Aside from the plowing, fertilizing and the first two times of cultivation, I did my own work.

from the plowing, fertilizing and the first two times of cultivation, I did my own work. I planted my garden May 16th, having a variety of 23 vegetables. In less than a week some of my seeds were up. Then was my first prespects for a garden. As time went on, all of my garden and cultivating was done. As I wished to utilize my ground as much as pos-sible, I set cabbage plant: between each of three rows of my early potates, so that when the potatoes were dug, the ground would still be in use. After my two rows of early peas were gone, I planted three rows of beans in this way, not letting any of the land be idle. Three feet on either side of one row of cabbage I set a row of strawberries, so when my cabbage was harvested it would leave my strawberries six feet apart. This is the beginning of my strawberry parch. I had three plantings of sweet corn aft two of peas. During the summer our gardens were visited by the county club leader. Then in November, we gave an exhibit of our products in the basement of the schoolhouse. Some of the mem-bers gave a basket exhibit at the county fair also. I think that a garden club is a fine thing, and if one has the opportunity to join one if they can, they are wise in doing so. My garden has been very profitable, and I have enjoyed working in it very much and hope that our club will continue. No one will ever regret their joining a garden club, at least I didn't. -Annabel De Forest, Memphis, Mich.

FUR DEPARTMENT -EDITED BY A. R. HARDING-

America's Foremost Author and Trapper QUESTIONS ANSWERED

TANNING BUCKSKIN

Would you please tell me what to use to tan and make buckskin soft and pli-able so I can make a vest of it?-C. S. B., Swartz Creek, Mich.

Put the skin in wood ashes or lime water that is about as thick as cream, leave there until hair slips off easy. Now flesh clean, that is, scrape off all the meat and fat, after the hair is off. The brown skin that is just under the hair, sometimes called the grain is scraped off also. After this is well done grease the flesh side with bacon grease or butter and let hang say for a day. Now take some of the good old homemade soft soap and make a good suds, immerse the skin and leave it until you can squeeze water through it easily. Usually it takes from four to ten days depending on the thickness of the skin. Keep in a warm place—not freezing. When water place not freezing. When water passes through the skin by squeez-ing easily, take it out, rinse in clear soft water, pass it through a ringer a few times, and work until dry. If you have no home-made soap use common bar soap.

Now this is fine buckskin but when it gets wet it dries hard. To pre-vent this smoke it. Knock both ends out of a barrel build a fire and throw the skin over top end leaving a little space so smoke will pass out slowly. Smoke for hours.



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"Taxation according to ability to pay", wrote Percy H. Johnston, president of the New York Chemical Bank in the January Forum, "is an ingredient of the promised panacea of the visionary Lenine and the volatile Trotsky".

"The subjects of every state", wrote Adam Smith, the world's greatest political economist, over two hundred and fifty years ago, 'ought to contribute towards the support of the government as nearly as possible in pro-portion to their respective abilities; that is, in proportion to the revenue they respectively enjoy under the protection of the state".

Whom shall we believe, Percy or Adam?

Learn a Little Every Day

WHEN the early explorers first set foot upon this continent they had no more idea than a jack-rabbit what it was. Four hundred years have come and gone and still there are a lot of intelligent American citizens who know little more about the North American continent than either the explorer or the jack-rabbit. Take Alaska, for instance, that land of "ice and snow" which Uncle Sam got in a "hoss trade" with Russia. Who would ever think of going up there inside of the Arctic circle to farm? Well, it appears that some six hundred imbeciles have started homesteading in Alaska and grow most all kinds of vegetables, grain and small fruits. Uncle Sam has recently developed a new variety of potato for them which gives promise of yielding abundantly in that far northern elime. Last year's crops were planted about May 15th and the first killing frost occurred October 18th, long after many crops in some sections of United States had been frozen to the ground.

There are many other interesting things you ought to know about Alaska and the other countries of the globe. Let's go globe-trotting and learn a little something every week about this wonderful world and the universe in which it whitls.

Service for Farmers

S CARCELY a week had passed following the great ice storm which swept northern Wisconsin and Michigan before the U.S. Department of Agriculture was out with detailed instructions to fruit growers on how to repair the damage to their orchards. To really appeciate the timeliness of this service one should bear in mind that only a very short time elapses before the trees will spring into life again and the wounds defy the healing arts of man. Orchardists who act promptly upon the advice of the Department of Agri-culture can salvage many trees which may seem beyond repair, and save themselves thousands of dollars. Criticism of the Department of Agriculture fades away before this and other tangible evidences of its great usefulness to the farmer.

Keynote inquiry of the agricultural confer-ence: How are you going to keep 'em on the farm when everybody's down on the farmer?----Richmond Times-Dispatch.

We hope that Senator Pepper of Pennsylvania will keep out of the public eye as much as pos-sible.—St. Joseph Gazette.

THE NEGLECTED CRCMARD What should I do with a neglected rohard? The trees were planted incise parts ago, but look as though only about nell grown. Quack grass is thick and he trees produce little or no fruit. One henry cuty remains of what were plant-it, the other trees are all apples. When and how should the orchard be sprayed? want to get the trees into bearing it pessible...J. B. Probably the image are charding

Probably the trees are starving. First get some viger into the trees

by supplying available plant food. If barnyard manure is to be had give the ground a good coat of it, as far out as the branches go, at least. If the whole surface can be covered, so much the better. There is no need to place it close around the trunk, as the feeding roots are farther out. In the spring, as early as the weather will permit, apply nitrot of sulphur, about half a pound to the true working it into the sail to the tree, working it into the soil. This may be applied first and will be an available food before the ma-

be an available food before the ma-hure is ready. Cultivate the ground like a corn field till the middle of July, then sow a cover crop, using vetch, one of the clovers, or whatever legume is best suited to your locality. This will not only enrich the soil, but will check the late growth and force the tree to ripen its wead for wintthe tree to ripen its weed for wint-er. Get the trees to growing, then there will be something to produce fruit. But little is to be expected from starved trees.

Something can be done to induce bearing when trees are full of vigor. Trees that are in a sod of long standing are usually made productive by a thorough plowing that will cut the roots near the surface, ac-companied by severe pruning of the The pruning may be done in top. top. The pruning may be done in late spring, followed by the plow-ing the first of June. In this way some wonderful results have been obtained for the following year. Some fruit growers speak highly of girdling and if properly done it is effective. We have in mind some delicious andles eight years old

delicious apples, eight years old, which were girdled around the trunk a little below the first limbs, by taking out a ring of bark about threefourths of an inch wide, cutting clear to the wood, this was done about June 20, when the trees were full of sap. The following year these

full of sap. The following year these trees bore a bushel of apples each. The wound grew together, leaving no apparent injury. If girdling the whole tree seems too much of a risk, similar results can be obtained by limiting the operation to some of the branches. By following this method some or-chardists have made Spy trees bear chardists have made Spy trees bear when seven years old. In spraying apples the first appli-

cation is made in the spring before the buds open, preferably as late as possible before the leaves appear. possible before the leaves appear. A strong solution may be used then, about one part commercial limesulphur solution to seven of water. This is to kill the San Jose scale and germs of disease.

The second spray is put on just before the blossom buds open. This is a weaker spray, one to thirty-five, to which arsenate of lead is added at the rate of one pound to fifty gallons.

For the third application use the same formula after the blossoms begin to fall.

Repeat about two weeks later. Repeat about the first of July.

Repeat about the first of August. If there is no scale the first ap-plication is often omitted, though it is of especial value as a clean-up. Such an ommission is doubtful economy.

The second spray is important for controlling the apple scab, which atoms well s iruit. It also kills the early insects. The third spray is for the codl-

ing moth and the scab, as are those later.

APPLE MAGGOTS

Can you tell me how to kill apple maggots? They burrow all through the fruit and ruin it for any purpose. What spray would you apply and how often? -L, H., Thompsonville.

The apple maggot is the larva of a fly which appears in time to lay its eggs in the small fruit. The maggot that hatches burrows about " the apple is ripe enough to fall, then leaves the fruit and goes into

the ground, where it remains until another summer.

On account of its habits the mag-On account of its habits the mag-got is safe from poison and the ily not affected by any of the insecti-cides, so far as has yot become known. Fortunately it does not spread rapidly. The fly seems to come from the ground and go direct to the true shows it to the tree above it.

The best means known is to gath-er the fallen fruit two or three times a week and feed to stock. A still better way would be to pick all the fruit before it is ready to fall and destroy it. That would mean a sacrifice of all the grop, but might be worth doing.

Chickens kept under the trees will pick up many of the larvae. Possibly the time will come when poison gases will be used to kill the larvae in the ground.

Have any of our readers any-thing to suggest regarding the con-trol of this pest?

HOW I DID MY GARDENING"

"Why not have it a real garden club, like they have in other counties?" This was the question asked by the teacher of the agricultural class of the Memphis school. It was decided to have it, if we could.

could. April 23rd we organized, and are now a State Garden. Club, the only one in Macomb county, with Miss Lena Hender-sen as leader. My brother and I were given a plot of ground, to be divided between us. Upon measuring mine April 16th, I found that I had exactly one-half acre. Aside from the plowing, fertilizing and the first two times of cultivation, I did my own work.

from the plowing, fertilizing and the first two times of cultivation, I did my own work. I planted my garden May 16th, having a variety of 23 vegetables. In less than a week some of my seeds were up. Then was my first prespects for a garden. As time went on, all of my garden and cultivating was done. As I wished to utilize my ground as much as poo-sible, I set cabbage plant; between each of three rows of my early pointaises, so that when the potatoes were dug, the ground would still be h use. After my two rows of early peas were gone, I planted three rows of beans in this way, not letting any of the land be idle. Three feet on either side of one row of cabbage is set a row of strawberries, so when my cabbage was harvested it would leave my strawberries six feet apart. This is the beginning of my strawberry parch. I had three plantings of sweet corn gardens were visited by the county club leader. Then in November, we gave an exhibit of our products in the basement of the schoolhouse. Some of the mem-bers gave a basket exhibit at the county fair also. I think that a garden club is a fine tho join one if they can, they are wise in doing so. My garden has bee very profitable, and I have enjoyed working in it very much and hope that our club will contine. No one will ever regret their ioning a garden club, at least I didn't. -Annabel De Forest, Memphis, Mich.

FUR DEPARTMENT EDITED BY A. R. HARDING America's Foremost Author and Trapper

QUESTIONS ANSWERED

TANNING BUCKSKIN

Would you please tell me what to use to tan and make buckskin soft and pli-able so I can make a vest of ft?—C. S. B., Swartz Creek, Mich.

Put the skin in wood ashes or lime water that is about as thick as cream, leave there until hair slips off easy. Now flesh clean, that is, scrape off all the meat and fat, after the hair is off. The brown skin that is just under the hair, sometimes called the grain is scraped off also. After this is well done grease the flesh side with bacon grease or butter and let hang say for a day. Now take some of the good old homemade soft soap and make a good suds, immerse the skin and leave it until you can squeeze water through it easily. Usually it takes from four to ten days depending on the thickness of the skin. Keep in a warm place not freezing. When water passes through the skin by squeezing easily, take it out, rinse in clear soft water, pass it through a ringer a few times, and work until dry. If you have no home-made soap use common bar soap.

Now this is fine buckskin but when it gets wet it dries hard. To pre-vent this smoke it. Knock both ends out of a barrel build a fire and throw the skin over top end leaving a little space so smoke will pass out slowly. Smoke for hours.



PICK FRESH STRAMBERRIES EVERY D. from Spring until hts Fall and memberries Summer and Fall fou can do this if rou ar our Improved Eventsering Varieties. Can free. BURGESS SEED & PLANT O Dept. 7 M. B., Gakeburg, Michigan.

OATS "BURT'S HEAVYWEIGHT" Status Stat

14 (418)

WHAT THE WOMEN DID HEARD a story, the other day, that was most interesting and I

will tell it briefly to you. A certain city in Florida was for two years in the hands and complete control of a ring of bootleggers. The completeness of which you will un-derstand when I tell you that the mayor, the prosecuting attorney and chief of police were the staunch and active members of the ring. The cellar of one of them, at least, was used as a receiving and a distributing station and the liquor came into that place in an enduring stream, in boxes, in barrels and bottles. Corrupt Babylon had nothing on that fair city. At last the better and more law-abiding class of citizens banded together and put in a commission form of city govern-ment. Then a committee of them waited on five prominent men, all bank officials and asked them if they bank officials and asked them if they would give their services to the city, for a dollar a year, for a term of two years for the purpose of wiping out the corruption, and then came the big IF and that was IF they could be elected. Of course the liquor ring put up the biggest, and dirtiest fight in the history of that town. They did everything but murdtown. They did everything but murder and they would have won if, and here we will write it in capitals, IF the women had not stood solidly for clean politics and voted as a body to eliminate the corruption not only of our laws but of our citizens. Is it not an inspiring story? Women have ever been the chief

sufferers when it comes to the evils and abuses of drink and I believe they can be counted on to vote right. Who can say she does not be-lieve in equal suffrage when this story alone is it's vindication?

FROM ONE WHO KNOWS TAKE HEED! Ye who are under the erroneous imposed our girls are afraid to get their hands soiled. One of our lady ex-perts found upon investigation in the city of Toledo that no girl could live respectably on a salary of less than seventeen dollars and twenty-five cents per week. Nevertheless the average salary of a girl worker is from nine to twelve dollars per week, depending upon the work at which she is employed.

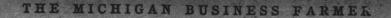
Having been the manager of a large rooming-house in one of big cities and also having travelled ex-tensively both in this country and abroad I have had ample opportunity to study the situation from all' angles. I shall endeavor to explain just how our girls make up the dif-ference between that nine and seventeen dollars.

Supposing our girl gets a position in one of our large department stores as a sales lady. To begin with she's got to be well dressed. She soon finds that her pay isn't large enough to meet expenses and naenough to meet expenses and na-turally asks the manager for an in-crease in salary. The manager looks astonished and replies, "why, haven't you got a gentleman friend?" By making a few inquires our girl finds that nearly all her co-workers have gentlemen friends, and very soon she has a gentleman friend also. And that's just about the beginning of the end, with the the beginning of the end, with the result that some day she may land in the hospital, have an operation and if she doesn't die from the ef-fects of it, she will have her womanhood taken away from her which is nearly as bad. The former happened to an acquaintance of mine a short time ago. She died while under an anesthetic and was dead about five minutes before the doctors, who were so interested in the operation, became aware of it. The latter happened to another lady whom I know and she still walks the streets. And the cause of it all is summed up in the "poverty." one word

Ninety-nine per cent of the women go wrong on that account, re-gardless of what our employers and

capitalists say to the contrary. Some of the girls in my rooming-house worked hard all day and then washed and ironed until one or two o'clock in the morning, to try and make both ends meet without going wrong.

In all my travels I have yet to find a girl who is afraid to get her hands soiled. God bless them with their tinkling goloshes for they are all some mother's girls, and only





too soon the goloshes will cease to tinkle and they will probably be the future mothers of this great and glorious country of ours.—J. H. R. Verily this letter tells the plain and unvarnished truth and I am glad to pub-lish it for it tells just what the average clerk in the city is up against. It is a burning shame to see our sweet, clean,

A tired old doctor died today and a baby boy was born— A little new soul that was pink and frail and a soul that was gray and

worn, And—haly-way here and half way there, On a white high hill of shining air, They met and passed and paused to speak in the flushed and hearty dawn.

The man looked down at the soft, small thing with wise and weary eyes. And the little chap stared back at him with startled, scared samise;

country girls thrown up against such a situation. Much better do housework in a respectable, kindly family, where a comfortable home, good food and some care may be expected than to face this situation alone in the big town.

CORRESPONDENT'S COLUMN

The editor wishes to thank the ladies who so kindly sent copies of "The Skeptic's Daughter." The poem is too long to publish on Our Page,

so I will give the address of the firm that publishes it. Gospel Trum-

I am at a i , to know how to answer the letter of A. W. Cheney.

Indiana.

pet Co., Anderson, Ind cost five cents a dozen.

It lies here on my desk and every time I look at it I shake my head and turn to something easier. It is so far from the truth I do not know where to start with it. How would it be to suggest a book or two for you to read, then write again and we will try to get on common

_____VOYAGERS___

Monthly.

And then he shock his downy head-"I think I won't be born," he said. "You are too gray and sad !" He shrank from the pathway down the skies.

But the tired old doctor roused ence more at the battle-ary of birth. And there was memory in his look of griel and tait and mirth. "Go on," he haid, "it's good—and bad; It's hard! GO ON! It's OURS my lad!" He stood and urged him out of sight, down to the waiting earth. —Ruth Comfort Mitchell, in Harpers Monthly.

ground. Read-The Greatest Thing in the World, by Henry Drummond; in the World, by Henry Drummond; The Great Companion, by Lyman Abbott, and The Story of the Other Wise Man, by Henry Van Dyke. I believe your ideas will change. I cannot publish your letter for it would offend many of our readers. It is a great pity for any one to believe as you say you do and unneccessary.

To the lady who wanted a new shuttle for her Wilson sewing machine.—Send the old shuttle to The De Stieger Music Co., Macomb St., Mt. Clemens, and the company will obtain one for you.

____AIDS TO GOOD DRESSING_ FOR SIMPLICITY, SERVICE AND STYLE

They

Patterns, 12c, New Spring Catalogs, 15c.

Address orders to Mrs. Jenney, Pattern Dept., Michigan Business Farmer, Mt. Clemens

Never have styles been more varied than this spring, when so many combinations of materials are used. We may change the line, "Many men of many minds," to many cleths of many kinds and add truthfully, all colors. I saw one dress of blue and red crepe knit, this rough finished but soft and clinging material, the long loose waist was of red, the skirt of navy blue, hanging straight and plain, the only trimming was made of bands of blue faced with the red and arranged very much as you saw illustrated in No. 3887 in our issue of Feb. 25. Which, by the way, is an exceptionally smart and correct style: It's good not only for young girls but for girls who claim the distinction of many years. Style 3858 is very popular with our readers. It will be found in our issue of Feb. 11. Let me suggest a method of developing the design or shall I just describe one that I saw? It would do just as well for wash goods althe in this case silk was used.

The waist was of black silk and the skirt of red and white check, not plaited but gathered onto the whist with a double heading at least three inches wide, this line which was long as in our picture. Of course no belt would be used and the heading fell over at regular intervals and looked like a ruching around the waist would be fitted in lust a little at the under arm seams. I am sorry not to be able to send samples to the ladies asking for them but I simply could not ask for as many as were desired. I feared the clerks would think I was making a patch work quilt. Taffetas are much in use as always in spring and summer; also canton crepes and many cloths of rough but soft and clinging texture. Plaid and checked ging-hams are seen in bewildering variety and many lovely volies, some I much admired were of dark plain colors with figures or chroidered bots of white.....

A "Cover All" Apron 3869. First aid to cleanliness and neat-ness is stamped on this model. It surely affords ample protec-tion and may be worn as a work dress. The closing is very practi-cal and convenient. Striped seersucker or gingham in pretty checks, would develop this style attractively. Rickrack braid op feather stitch banding will make a nice fin-ish. 3869 The pattern is cut in 4 sizes: small, 34-36; medium, 38-40; large, 42-44; extra large, 46-48 inches bust measure. A me-dium size -requires 3 7-8 yards of 36 inch means



5

Comfortable Night Drawers 3864. This very very pleasing "es-sential" is made with waist portions to which the full body sections bre joined. The sleeves may be in wrist or elbow length. Out-ing fiannel, domet fiannel, crepe, cam-bric and long cloth are good for ma-terials for garments of this kind. The pattern is cuit in 6 sizes: 2, 4, 6, 8, 10 and 12 years. An 8 year size requires 3 1-8 yards of 36 inch material. Pattern malled to any address on re-celpt of 12c in silver or stamps.

cross may be joined to the guimpe, or be fin-ished to "silp on" over the guimpe. Jer-sey cloth or prunella would be good for this style. The sleeve may be in wrist or el-bow length. The guimpe may be of pongee or crepe. This is a splendid style for wash fabrics. The pattern is cut in 4 sizes: 8, 10, 12 wear size requires 1 3-4 yard of 32 linch material for the guimpe. and 3 1-2 yards for the dress. Pattern mailed to any address on re-cipt of 12e in silver or stamps.

March 11, 1922

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To Mrs. G. R. B.—Our new cata-log contains several good styles for the kind of dress you wish. I am mailing you three separate designs.

I have been surprised not to re-ceive more orders for pattern 3870 in our issue of Feb. 18. It is an unusually smart style. I can furnish braiding designs. These designs cost anywhere from 35 to 50 cents a pat-tern and come in blue for light for light goods and yellow for dark.

TO MISS Z. B. M., OHIO I wrote you some time ago and asked if you would help me get the address of Miss Z. B. M., of Ohio. I have falled to get it. Possibly she thinks I want to argue with her but I want to say right here, she is my kind of a girl and I would like to tell her something she would be glad to hear. If not I will glad-up ay her for her time sending her ad-dress and any expense that might be in-turred. Thank you.—Mrs. Fred A. Peter-son, Harbor Beach, R. I, Mich. I am publishing your letter so that Miss Z. B. M. of Ohio may write to you herself. I thought that the

to you herself. I thought that the address was mailed to you several weeks ago. Is it possible that the letter went astray? Perhaps I did not have your address correct.

FOR WHOOPING COUGH

FOR WHOOPING COUGH For whooping cough steep chestnut leaves. Take the tea, put enough brown sugar in it to make a thick syrup and when boiled down give every once in a while. I cook my pork hams and shoulders and pack tight in cans. Fill up with broth and seal, it is fine. Keeps well, Would like someone to send recipe for canning beef without cold packing.—A Reader of M. B. F.

FOR BANCID LARD

FOR BANCID LARD In answer to an inquiry in your paper for a way of treating lard that has be-come rancid, I wish to tell you how we succeeded in an experiment, or rather by following the advice of a butcher who told us to re-heat the lard, being care-ful not to fill the kettle more than three-fourths full. When hot, put bit a large handful of salt, stir well for a few minutes, remove from fire and strain. The salt will settle to the bottom of the kettle, and the lard will not taste at all of salt, but will be much improved. Thes anyone a good recipe for dried bed which they wish to contribute? — A Muskegon County Reader.

DARK CAKE

DARK CAKE I am a most incerested reader of the M. B. F. and find so many useful hints. Mrs. F. E. requests dark cake recipe. I will send mine. Makes two layers or nice loaf cake. 3 tablespoons shortening, 1-2 cup sugar (brown is best), yolk of 1 egg, 1 cup flour, 2 teaspoons baking powder, 1-4 teaspoon salt, 1-2 teaspoon allspice, 1 teaspoon cinnamon, 2 tablespoons cocca. Encland Crulers

Easyboil chinamon, 2 tablespoons cocca. England Orallers 1 cup sugar, white; 1-2 cup thick sour cream or soft lard or butter, 5 or 6 cups flour, 2 eggs, 2 1-2 cups sour milk or buttermilk is best, 1 rounded teaspoonful soda, 1 tablespoonful vinegar, 1 tea-spoonful nutmeg or mace. Fry the same as doughnuts, Place in stone jar. They will keep fresh for a week or more. I find they are nicer than any others I " tried—From A Reader.

TO MRS. S. A. T., MATHERTON, MICH TO MRS. S. A. T., MATHERTON, MICH I would like your moccasin pattern for baby. Thank you. Can anyone tell me what will take the stains off white oil cloth, also what will clean French ivory and make it look like new? I would like a recipe for ginger bread, also a recipe for a good jelly-roll cake. Here is a good dressing for lettuce (for three): 1-2 cup of sour or sweet cream (whilp cream). I teaspoon of pre-pared mustard, 2 teaspoons of sugar, add sapt and sprinkle with celery salt and paprika. Hand Lotion

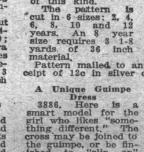
Hand Lotion The juice of two lemons, strained; 4 z. of glycerine, 4 oz. of rose water. OZ.

52. of glycerine, 4 oz. of rose water. French Dressing 1 cup of sugar, 1 teaspoon mustard, 1-2 teaspoon tumeric powder, 1 teaspoon salt, 1-2 cup vinegar, 1 egg, a lump of butter the size of a walnut. If all of us farmer wives would try and send our good recipes and helpful hints to the woman's page, we would help our editor in making up a more interesting and helpful page. Let's all try.--Mrs. F. G.

ELDERBERRY PLANTS

ELDERBERRY PLANTS I have been a reader of the M. B. F. for some time and must say I enjoy reading it. I always turn to the Farm Home page first. In a recent issue I saw an inquiry about elderberry plants. I have lost the paper so I can not tell you the person's name, but will say if she wishes to get elderberry plants she can yet them by sending to W. N. Scarff. New Carlisle, Ohio. They will send her a catalog free On request. The elder-berries are described on a page 18 of 1922 catalog. I will close, honing I have been a little help, Mrs. R. S. B:

CHILI CON CARNE In the Feb. 18, 1922 issue, Mrs. F. Br. rask for recipe for chili con carne. Here is one I have always used: Fry 1 1-3 ks, hamburg steak or ground beef and a large onions with tablespoon of lard, Place in large kettle together with 1 can kindey beans, about a pint of canned to-matoes, 1 cup boiled rice, cayenne peopler and salt to taste and teaspoontal of Gebhardt's Chili Powder. Add 2 or 2 1-3 quarts water and boil 20 minutes I always use Bon Ami to clean indiced for stove or if the black is burned in steel wool is good.—Mrs. G. A.



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DEAR CHILDREN: Here it is nearly spring. Does it make you boys think about building bird houses? It does me. Why not build some? I know you all love the birds. And it is very easy to build a house and it will show the birds they are welcome. For the little wren you can make a fine home from an old can which con-tained coffee. Or if your mother over buys any edibles in tin cans you can make very satisfactory homes from them for the wrens. Remove the entire end that has been cut in opening. Take a piece of 1-2 inch board and cut out a home a hole 1 inch in diameter in this board near one edge. Fit the

this board near one edge. Fit the board in the can and nail, then fast-en can to a tree or under the eaves of the porch, turning the can so that when it is nailed the opening will be at the upper edge. The can should not be more than 10 feet

should not be more than 10 feet from the ground. Most of you no doubt know much about building houses from pieces of boards and that all the tools you need are jackknife, saw and ham-mer so I am going to leave it to you to decide as to the different designs and styles. There are some measure-ments you must follow, however, if you wish to attract your feathered you wish to attract your feathered friends. In building a house for the friends. In building a house for the wren the inside floor space should be at least 4x4 inches; the height inside, 6 to 8 inches; diameter of en-trance, 1 inch; height of hole above floor, 4 to 6 inches; and height of house from ground 6 to 10 feet. This home will also do for the chickadee. The house for the bluebird must home will also do for the chickadee. The house for the bluebird must have floor space amounting to 5x5 inches; height inside, 8 to 10 inches; diameter of entrance 1 1-2 inches; height of hole above floor, 6 to 8 inches, and height of house from ground, 5 to 10 feet. These measurements will give you

from ground, 5 to 10 feet. These measurements will give you something to' work from and in building houses for other birds you can work according to the size of the bird compared with the wren or the bluebird. But do build some because you know the world seems brighter and you are happier when there are many birds about. And crops, gardens and fruits will be better because the birds will kill the worms, bugs and other pests. UNCLE NED.

OUR BOYS AND GIRLS

OUR BOYS AND GRILS Dest Juncle Ned-J am writing to tak you if I can join your merry circle? I an a girl 10 years of age and I am in the seventh grade at school. I will de-scribe myself so if anyone sees me they will know me. I have light hair, blue eyes and fair complexion. I live on the Henry Ford farm of 1,520 acres. If has 21 buildings on it. My birthday comes September 17. I will be 11. Have I a twin? I wish some of the cousins would write to me. I live 6 miles from school. I walk to school every day. We have to have a piano and then I am going to have a piano and then I am going to have a piano and then I am going to have a school symmastic stunts in het and poy. I do symmastic stunts in the summer. My favorite sport is skating. I have one brother and three skating. I have one brother and ther skat

Dear Uncle Ned-I enjoy reading the Children's Hour. I will tell about the inlee trip we took two years ago last August. We went to the Smith's reunion We drove our Ford through and it can surely climb the hills. The reunion was in Practisburg, N. Y. We stopped at the Niagara Fails. I think the fails are very pretty. We camped out three nights going and coming back we camped out two nights. If you want to see the sights buy a Ford. I am seven years old this month. I go a mile to school. The boys and girls had a contest and the boys won and the girls treated the boys to ice cream. I hope the girls will beat the bys in the next contest. Stella May smith, St. Louis, Mich.

Smith, St. Louis, Mich, Dear Uncle Ned—My father takes the M B. F. and I like the Children's Hour very much. I am a girl nine years old and am in the third grade. I have two sisters and three brothers. We live on and three kittens which are my play-mates. We have one turkey, two ducks and about two hundred chickens. We also have horses, cows and ples; if we didn't wouldn't it be funny looking farm? It is snowing today and I hope it doesn't quit for a while then I can have some more sleigh rides. It will also cover up this ice that we have from the ice storm. Believe me. Uncle Ned, I took a good many falls on it and I do not care, be-cause the snow is falling on it. Lots of

EAR CHILDREN: Here it is love to Uncle Ned and the cousins. — Lucile Carpenter, R: 3, Coleman, Mich.

Lucile Carpenter, R: 3, Coleman, Mich, Dear Unlec Ned—May I join your mer-ry circle? I live three miles from Alto. I have a brother and a sister. My sister is older than I am and my brother younger, We live on an 80-acre farm. We have 6 cows and 3 horses. We have ne dogs but have 2 cats. My brother Arthur and I have a calf which our father gave to us. We each have eight dollars in the bank, I am 12 years old and in the eighth grade at school. I can skate backward and forward. It is lots of fun. There is a pond on the west side of our school house. Most all of the children have skates. Will close with love to cousins and Uncle Ned.— Owen Ellis, Alto, Mich.

Owen Ellis, Alto, Mich. Hello Uncle Ned-How are you and the cousins these days? How did you like the weather last week? I think it was fine. I fell down about a dozen investigation in the fifth and sixth grades. I and my brother have a dog whose name is Cherry and a cat whose name is March. I will be 12 years old. Have I a twin? I live on a 60-acre farm and I like to help do the work in the garden, and do little things around home in the summer but in winter I don't care very much for working outside. I would rather do something in the house or read stories, but I like to go out side and play on the ice and in the snow with our sleigh, and dog. I wish some of the boys and girls would write to me and the about their good times they have. I will answer as many letters as I can. Your inleee-Lydia Haag, R. I. Free-land.

land, Mich. Dear Uncle Ned-May I join your merry circle? I live in Detroit and though I do not go on sleigh rides and such I have good times. I am a girl eleven years and on May 1st I will be twelve. I am in the 6-A grade. I have dark brown hair and brown eyes and I am four feet eight inches tall. Have I a twin? I must tell you about my pets. I have two cats, Blossom and Taby, Blossom is pure white and has blue eyes and Taby is blue and white and he has orange eyes. They are Angoras, Blos-som had a sister, Bluebelle, but she died last August. She was white and had orange eyes. I am sending a plo-ture of Blossom, Bluebelle and myself, taken before Bluebelle died. We just got Taby and haven't a ploture of him. Please won't some of my cousins write to me? Love to all_-Lucille Shults, 160 Reed Place, Detroit, Mich.

1160 Reed Place, Detroit, Mich. Dear Uncle Ned—I have been read-ing the Children's Hour in the M. B. F. and I like it very much. We lived on a farm of about 320 acres. We have five horses, four sows, 30 hogs and pigs, 230 sheep and lambs. We live on a four corners so we have lots of travel. I will be seventeen years old May 3rd. I am not going to school. I have four sisters and two brothers. My oldest brother works in Jackson and my oldest sister is married and has a baby girl ten months old. My mother is dead. My father is living and doing fine with farm work. I am 5 feet 3 inches tall, have light hair and blue eyes, weigh about 120 pounds. I wish some of the boys and girls would write to me. Your niece.— Helen Benson, Langsburg, Box 51, R. 2, Mich.

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On trial. Easy running, easily cleaned, Skims warm or cold milk. Different from picture which shows larger ca-pacity machines. Get our plan of easy

MONTHLY PAYMENTS and handsome free catalog. Whether dairy is large or small, write today. AMERICAN SEPARATOR CO. Box 7067 Bainbridge, N.Y.

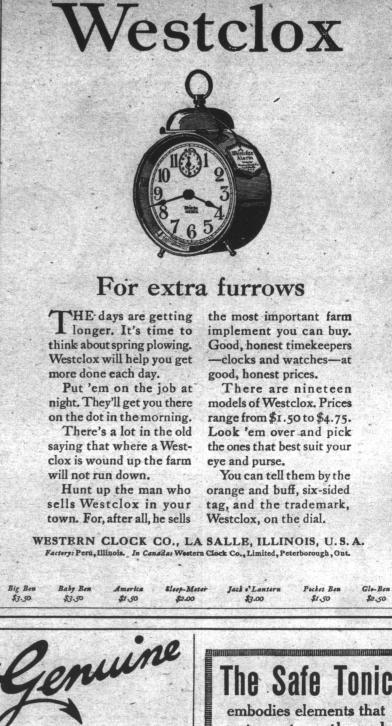
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2, Mich. Dear Uncle Ned—I am a boy 13 years old, in the seventh grade at school. I go to a school called Toad Hollow be-cause one year there was a hollow full of water and it was full of frogs. They were singing very loud. A woman hap-pened by and she named it Toad Hol-low, I live on a 160-acre farm. We have 18 head of cattle. We rent the farm, I have 1-2 interest in a calf. When it was young my father gave me his share. We gre going to move to a smaller farm of 60 acres. We deliver milk in Gelesburg. We are going to keep the milk business and buy our milk and we may get the ice business. Wel I will close.—Lawr-ence DeBack, Climax, R. 1, Mich.

ence DeBack, Climax, R. 1, Mich. Dear Unole Ned — May I join your merry circle? I will be 17 the 22nd of October. Have I a twin? We live on a 120-acre farm. I have two brothers and one sister at home, and one sister mar-ried. Ilving in Flint, We have a good time skating and coasting. I learned to skate this winter. We had an awful sleet storm last week and it broke down, many fields so my brother skates to school I am not going to school this year, on ac-count of my mother's health I certainly agree with Uncle Ned about not realiz-ing how much we think of anyone 'till they are at death's door. My oldest sister and her husband died in one day at the Mercy Hospital, Bay City, with the flu, and left three children, two years ago. We take the M. B. F. and like it fine. As soon as it comes I look for the Children's Hour. Wishing Uncle Ned and my cousins success i will close 2.000 pounds what does the man on the rear end of it weigh? Answer: He weights the ice, May I come again? Some of the cousins write to me.-Miss Mar-tha Goheen, Gladwin, Star Route, Mich.

OTHER LETTERS BECEIVED

Anna Allbee, R. 1, Harrison; Leah McDonald, 1905 Jane St., Flint; Cathe-rine Cautlin, R. 2, Melvin; Adrith Rivers, R. 1, Burt; Roberta Gaugiver, R. 4, Hesperia; Warren Cole, R. 4, Mt. Pleas-ant; Isobel Willett, R. 2, Standish; Mil-dred Boomer, R. 4, Imlay City; Albert Noreen, R. 4, Reed City; Arlene Hunt, R. 7, Lapeer; Beatrice Hunt, R. 7, La-peer, Mich:







W. WEAVER.

THE MICHIGAN BUSINESS FARMER

FARM BOYS SHOW FATHER THING OR TWO (Continued from page 5) with the rest of the club boys of our community to the Louisians Fair. This exhibit next went to the Chicago Hay and Grain Show at Chicago. As yet the boys are unaware of the details of their exhibits there. I am planning to enter the club again next year with greater zest and deter-mination to grow better corn.". Another Prize Winner

Another Prize Winner

Among the other scores of boys who wen prizes at fairs last year is H. Rollin Wood, of River Junc-Jackson county, who with his tion, brother captured a number of high honors at the Jackson County Fair last fall with his herd of Shorthorns, consisting of two cows, two heifers, two bulls and two yearling bulls. Rollin's bull calf took first place in the boys and girls club contest and won second honors in 'he open class showmen. His and third against veteran showmen. His herd won first, second and third places in the open class. He was also awarded a second place in the state championship contest for beef cow and calf in the boys and girls olve cartest. His story, the should club contest. His story, too, should prove of interest to the older folks and an inspiration to the younger:

prove of integrest to the order lonks and an inspiration to the younger: "In order to tell the story of my cattle I must begin back three years ago, the summer I was thirteen. I joined the calf dub and raised a grade Shorthorn calf which I exhibited at the Jackson County Fair, taking first premium. That calf I sold at the fair, 'But we learned at the fair that it paid to keep registered stock, so we, my younger brothers and I, took our money we got from the sale of the calf and our prize money and what other money we had and bought a pure-bred cow with a calf by her side. Before the next club started the next year she had another calf which, we entered in the calf club and again took first prize. That fall our father in buy-ing a farm and stock came into posses-sion of three head of registered Short-horn cattle. In the winter we sold the calf we bought with the cow for \$140. "Taking that money and some other we had managed to make we bought a half inferest in those cattle. Then father gave us the other half, saying, 'Go to it, boys, and make what you can of them."

it, boys, and make what you can at "In June we bought two rearling helf-ers of H. W. Darling, giving our note for them. We believed we had a good chance of winning one of the champion-ship prizes at the fair. When we had our cattle tuberculin tested, one of our best cows reacted to the test. Then we did feel discouraged. But soon after Mr. Ballard, our county agent, visited us. He told us that he believed we had a chance yet, if we put in our old cow. So we took hope and began to try to get her in shape to show. The day be-fore the fair we started for Jackson with a cow twelve years old, one four, and our two yearling helfers, two bull calves, a yearling bull and a bull two years old, our entire herd. But with this outfit we won third place on the championship and were allowed to show our cattle in open class, with the men, where we wen first, second and third prizes and came away with money enough to pay our note. It is needless to say we are planning for next year and expect to do better. "We feed our cattle a few ground eats, a little green grass they get on the pasture lot." NORTHERN MICH. SWAPS STOR-

NORTHERN MICH. SWAPS STOR-IES ON BIGGEST STORM (Continued. from page 5)

and rising again on the third day when the sun came out and soon released the grip on the ice. Our fruit region immediately adjacent to Tra-verse City, including Old Mission Peninsula was not damaged to an

appreciable extent. "In the vicinity of Benzonia and southward it rained hard all Wed-nesday night, freezing as fast, as it fell. Before midnight the weight of the ice began to break the limbs and the night air resounded with the snap and crack of falling branches, snap and crack of falling branches, trees and telephone poles. When daylight came most of the trees were partly or wholly denuded and others were bent over until their tops touched the ground. Twigs of grass were changed into cylinders of ice some two inches in diameter. Heads of timothy projecting through the snow would stand up like great the snow would stand up like great icicles. Fruit trees, especially ap-ples and peaches, the broad-branching trees, were split down to the crotch or broken just above. At Thompsonville everything was down Thompsonville and the ice on the railroad crossings was a foot or more thick. The story of the damage in this locality was told me by a friend who left Thompsonville for Traverse City on Saturday, driving along the Pere Marquette right of way. He was obliged to make many detours beobliged to make many detours be-cause of fallen trees and telephone poles and often compelled to cut trees and fences in order to tge through. My friend, who is an or-chardist on the peninsula, had pic-tured his own or hard flat as the ones he had passed, but gained hope

as he neared Traverse City and saw that the damage was rapidly dimin-ishing to the northward. He rejoiced when he finally reached here an learned that Old Mission Peninsula was safe. . From the north came only reports of a heavy snow storm with no damage other than that uswith no damage other than that us-ually attendant upon such a great fall of snow. Traverse City was fortunate. Under like circumstances a hundred years ago we should have had a day of Thanksgiving and praise for our deliverance from the "destruction which welled by "destruction which night." walked by

Mr Wm. A. Jenkins, proprietor Hill Top farm, Wexford county, describes the storm as follows:

"Tuesday, Feb. 21, about 6 o'clock p. m., the wind being in the southeast, it started to storm, with fine snow, changing to rain after dark. It seemed to be a great deal dark. It seemed to be a great deal warmer in the upper air than on the ground, as it froze as soon as it struck. Wednesday morning we had a nice thunder shower lasting about three-quarters of an hour. It rained all day without stopping to rest, all hight and nearly all day Thursday but it was a good bit cold-er. Trees were loaded with ice. er. Trees were loaded with ice. Limbs of 1-4 inch in thickness were coated with 2 to 4 inches of ice. Roads were impassable. From 4 to 6 inches of ice were covering the railroad tracks. Nearly everybody had to chop their barn doors loose. There was thousands of dollars damage done in Wexford county alone. Some windows broken. /But best of all no reports of anyone being hurt. I have lived here over 25 years and do not remember of witnessing a storm causing so much damage. Barbed wire fences were like woven fencing and woven wire fences were solid ice. Mail carriers could not get out of Manton or Cadillac until Saturday. Brand new telephone poles were broken off. Big timber did not escape. Large elms 20 to 30 inches through were striped of limbs, leaving nothing but a straight trunk. Also other woods likewise. The country certainly looks like one big slashing, only worse."

Story of the "Big Snow"

Mrs. George Finch of Wolverine furnishes the Business Farmer with the following account of the great snow storm which struck that sec-tion simultaneously with the sleet

storm farther west: "Northern Michigan is just recov-ering from the greatest storm ever experienced since the days of the big lumber woods, but still there are miles upon miles of roads that are so blocked with the drifted snow that travel over them is impossible. The storm began on Tuesday afternoon gradually increasing in fury until Thursday night late. During the two days there was almost no travel over any of the country roads. Many teams which were in town on Tuesday were compelled to wait until Saturday to return home. Some farmers who were obliged to go to town had to snow-shoe both ways. Train service on the Michigan Central was cut to one train a day, but by the incessant work of the snow plow crews the tracks were cleared sufficiently on the main tracks so that regular service was resumed Monday.

"It is truly a beautiful sight to see the heaps and heaps of snow piled in huge drifts 10 to 20 feet high all over the country. Fences in some places are completely buried and many buildings are surrounded by snow higher than the windows. On the G. R. & D. conditions are more severe than on the M. C., also on the D. & M. Parties traveling to Tower a week ago are still marooned there.

"Pr perty damage was very light, however. North of Grayling, on the M. C. to Mackinaw City there was practically no trouble with tele-phone service damage such as was experienced farther south where the terrific sleet and hail storm raised Switch tracks are not such havoc. such havoc. Switch tracks are not yet completely cleared but crews are doing double duty to speed the work. In Cheboygan the Union Bay and Paper Mill Co. assisted in clearing the streets for traffic by bitching their big instance onto the hitching the streets for thank by hitching their big tractors onto the snow plows and their teams hauled great piles of snow to the banks of the river. The weather has not been the river. The weather has not been as cold as earlier in the winter, but the snow has packed so tight that in many places the teams can walk

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VALUABLE SHORTHORN SAVED FROM BUTCHER

Users and Dealers Swear By

"The Home Cow Dector."

Here is a sample of the letters we rece've every day from dairymen who would not think of getting along with-out Kow-Kare in the barn. Mrs. Har-vey. Ray, Homer, Ill., writes:

"Two thought for some time I'd writes: "Two thought for some time I'd write and tell you the happy results I secured from using Kow-Kare. Last winter I used it just as directed and the valuable Shorthorn cow, we would have been com-pelled to send to the butcher for what we could get is now safe in calf. I have also used the Bag-Balm with good results."

Barrenness, as well as most other ow diseases, Retained Afterbirth, Abortion, Scouring, Bunches, Milk Fever and Loss of Appetite have their origin in sluggish genital and digestive organs. These are just the organs organs. These are just the organs Kow-Kare acts upon most promptly, toning up and creating healthy, nor-mal action. The milk yield improves at once through this effective aid to the milk-making functions.

Don't wait for actual disease; use Kew-Kare on your poor milkers. It will work wonders and return many times its cost.

If you are out of Kew-Kare, go to your feed dealer, general store or druggist. They will give you the new reduced price-65c and \$1.25.





BREEDERS' ATTENTION If you are planning on a sale this year, write us CLAIM THE DATE! now and CLAIM THE DATE! This service is free to the live stock in-dustry in Michigan to avoid conflicting sale dates. LET " THE BUSINESS FARMER" CLAIM YOUR DATE! 22 -

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"Truly the snow fall has, been, without a doubt, the greatest in the same length of time ever known in North Michigan but folks still all came out smiling and count themselves far more lucky than our neighbors farther south who have suffered far more hardships and loss than us." (March 3rd).

Mr. R. D. Bailey, county agricultural agent at Grayling:

"The crossing tender at Grayling reports this the worst storm in the history of Grayling. 100 men are loading snow onto flat cars in extensive railroad yards at Grayling. Mills closed on account of shortage of logs, branches supplying logs being blocked. Crust prevents horses working in the woods. No trains on Manistee and Northeastern, ending here, for two weeks. Must still be several days to week before road is dug out. Farmers who bring milk to Grayling from country skipped two days. Their teams have travefed on crust ten days. Electric light service here uninjured. Fuel supply for town abundant." (March Brd.)

Mr. Norman E. Glasser, of Gaylord, gives the following graphic description of the storm at the "peak" of lower Michigan:

"One does not have to live in Northern Michigan long to learn that one crop which never fails us and which can be depended upon to produce the 'average yield' annually, is the great white blanket of snow which covers this northern territory in winter time. But whatever production records may have been made in past seasons, they all stand shattered by the "deluge" of snow which has been poured out upon this section during the past two weeks. Beginning on Monday, February 20th, with a light rainfall which at night turned to snow, the weather continued unsettled until mid-week, when a sudden rise in the wind became apparent and the weather settled down to an old-time blizzard.

"When the timid populace arose the next morning and cautiously peered out, it was to gaze upon a scene which surpassed anything in the memory of the oldest inhabitant. Men who have lived here for forty years claim that never have they seen snow to a greater depth on the level than has been in evidence here since the past week.

"Inmediately after the storm traffic was practically at a standstill for a couple of days. In many cases the crust on the snow was of sufficient strength to bear the weight of a team, and in others it would hardly bear the weight of a man. The result was that the unwary pedestrian on his way to work, going along with a sense of security and satisfaction at being able to skim over the surface, would suddenly break through and nearly be lost to sight in the snow below. Skis saved the day for those who were fortunate enough to possess them and many persons found these the only means of transportation which enabled them to get to work Throughout the country everything was practically at a standstill for geveral days and it is only recently that some of the main avenues of traffic have been opened up. Drarging and rolling were found necessary and was made difficult and dangerous to horses by the heavy surface crust which still prevale. It was not an uncommon thing to see a snow roller with five teams of horses attached. Two days after the storm subsided a funeral procession started from a country home to the village burial ground, seven miles distant. They had not counted on conditions being, quite so bad and after fighting their way through for a distance of two miles, and being nearly exhausted, they found it necessary to put up at a farm house for the night and continue the journey the next day. Railroad service was particularly hard hit, many of the cuts being so completely filed with snow that the average snow plow made no impression, and it was only by putting on a sufficient force of men to dig their way through that service was restored. Many of the roofs on the larger business places had to be hurriedly shoveled off to relieve them of the tremendous weight of snow which threatened them with collapse.

"However, through it all the population maintained a smiling attitude, and went to work with a willingness to restore conditions to normal, especially so since reports indicate that Otsego county was not as hard hit as some other sections which suffered as a result of the ice storm. As one gazes down our main piles of snow on either side, he is likely to be selzed with a feeling of regret that it is not possible to "embility when the temperature sizzles around the 100 mark and we are helpless and at the mercy of the ice man."

TREES DAMAGED BY ICE MAY BE REPAIRED

(Continued from page 4) branches broken off from the tree, the wound should be trimmed and smoothed as neatly as possible with a gouge and mallet. Special attention should be given to trimming the edges of the bark neatly, particularly at the lower part of such a wound, because growth proceeds from the top and sides more than from the bottom. Ragged stubs and broken edges of the bark should be trimmed out at the bottom of the wound. The splintered wood should be removed, leaving a smooth surface for the healing-in margin of the wound to cover. The bottom should end in an elliptical or V-shaped point from which rain water can rapidly escape.

water can rapidly escape. The exposed wood on all the scars where branches are broken and on all pruning wounds more than threefourths of an inch in diameter or which may be expected to take more than one year to heal should be painted at once with a good wound paint. A mixture of 1-4 to 1-3 creosote ofl and 2-3 to 3-4 ordinary coal tar has proved very satisfactory, since it is both a disinfectant and a waterproof covering. It is slightly injurious to the cut edges of the bark and while this may not be serious and is readily overgrown, if one wishes to get the best results, a coat of shellac should be applied to this cut edge of the bark and also a half inch or so on the sap wood before the tar and creosote tar is applied. The coal-tar and creosote are the ordinary commercial materials purchased at the paint stores. The mixture should be made as thick as a very thick paint and is best applied with a stiff brush. The wounds should be kept painted annually until they are healed, though once in two years will perhaps suffice.

Grafting May Hasten Recovery The recovery of badly broken trees can be hastened somewhat by inserting grafts according to the usual methods of grafting fruit trees, though perhaps the grafts may not always be in the usual positions. Cut stubs can be grafted with two or more scions, either of the same or of a new variety. The scions for this purpose should be saved while the trees are still perfectly dormant, but the grafting is best done while the buds are swelling.

Large injuries on the trunks of the trees can be covered by bridge grafting. This consists of inserting long whip-like scions above and below the wound so as to completely bridge it over. By this method the trees can be greatly strengthened. It may be necessary to cut back the tops even more than ordinarily to prevent the wind from pulling the grafts out, and possibly to support the grafted tree top by posts and wires after the method used in supporting telegraph poles. The coaltar creosote tree paint should never be used in contact with the cut surfaces of grafts, but only grafting wax, since this tree paint will kill the cut surfaces and prevent the union of the scion and the stock. Farmers Bulletin 710, Bridge Grafting of Fruit Trees, contains information regarding this practice.

All the pruning and tree surgery above suggested, except the grafting, should be done during the dormant season before the buds swell and the bark begins to slip. The grafting, on the other hand, should be done after the buds begin to swell and as soon as possible after the bark begins to slip, using scions, however, that are perfectly dormant.



Seend No Money No - not one cent now. Just letter or postard with name and address also number of boot and size wanted. When boots arrive. Just has number of boot and size wanted. When boots arrive. Just has and the boots have served at least \$2 at our special sale price, out think you have served at least \$2 at our special sale price, out think you have served at least \$2 at our special sale price, out think you have served at least \$2 at our special sale price, out think you have served at least \$2 at our special sale price, out think you have served at least \$2 at our special sale price, sharcood company, Dept. 5B Minnecrolls, Minn. WANT TO SELL LIVE-STOCK?

AN AD. IN THE MICHIGAN BUSINESS FARMER WILL DO IT





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be caused by the retention of the afterbirth. In fact if cows are not properly cleaned after calving they very frequently terminate in barren-ness. In other instances the sterili-ty is temporary in character, de-pending probably upon the relative activity of the diseased condition within the uterus; after one or two seasons of barrenness the cow will within the uterus; after one of two seasons of barrenness the cow will again become pregnant. Many cases, however, terminate in permanent worthlessness of the cow ior breed-ing or dairy purposes. You should have your herd examined by a quali-fied veterinarian.

BELIEVE IT IS ABSCESS

BELIEVE IT IS ABSCESS I' am a reader of your paper and like it very much. I am writing for a little advise in regard to one of my cows which has a swelling or lump about the size of a quart bowl just below the rump bone. It has been there about two weeks, It does not seem to get larger or small-er.—A Subscriber, Marion, Mich, I am inclined to believe this is an a baccar and if an about the oppend

abscess and if so should be opened. Shave the entire enlargement, wash thoroughly with any good antiseptic then paint with iodine and make a syringe cut good once daily using one tablespoonful creolin to one pint of water. Boil the knife you use to be sure not to cause infection.

MACK'S NOTES

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THE MONROE DUROC SALE

THE MONROL DURON SALE An auction sale of pure-bred Durok fogs was held on the Plum Creek Stock Friday, March 3. The name of the firm making the sale was Drodt & Berns, Wr. Berns being the member of the firm in charge of the herd. The effering was fall yearlings and spring gitts. Col. H. I. Ingleheart from Elizabethtown, Ken, was the auctionew and Hayden Ingle-heart, from the same city, had charge of the same city, had charge of the same city, had charge of pure shows. Paul H. Gilman, Peters-burg, Kandor, Ohio, The Michigan Bus, increased by H. H. Michigan Bus, increased by H. H. Making, was method lines known to the Duroc breed methowness and general fitness for ano-the spring gitts about \$48. One of the spring sprictated features of the sale work appreciated features of the sale the spring gitts about \$48. One of the methowness and addresses of the sale work appreciated features of the sale the large erowd in attendance. The hard and H. S. Graig, all of fitton; G. L. Burke, F. Jackson, At-bert, Conenwett of Dunke, S. R. Birto is and Petersburg, Mich., E. H. Mille, the Wood Paul H. Gilman and Fred and Petersburg, Mich., E. H. Miller, the Wood Paul H. Gilman and Fred and Petersburg, Mich., E. H. Miller, the S. Knapp, Liwis Heley, Ed.

F. L. Wood, Paul H. Gilman and Fred Bamm of Petersburg, Mich., E. H. Mill-er, B. S. Knapp, Lewis Heorl, Ed. Schroeder and W. C. Craney of Monroe, Charles Mortke, New Boston, Harry T. Wagnar, Flat Rock, Ellery King, Leon-ard, A. A. Ding, Blissfield, W. Zimmer-mann, La Salle and George Willman, Ida, Michigan.

THE NYE HOLSTEIN SALE

THE NYE HOLSTEIN SALE On Thursday, March 2, a small herd of pure-bred Holstein cattle was sold on the farm of James Nye, northwest of Pontiac, just off Oakland avenue and near to the outer end of the new paye-ment. The auctioneer was Harry Rob-ertson, the pedigree expert, J. F. Fish-beck, the clerk was Bradford Smith, and H. H. Mack, of the Michigan Business Farmer was the fieldman. There were 25 head of pure-bred animals in the of-fering and several grades. The names and addresses of the breeders, who bought cattle at this sale are as follows:

Frank Renshaw, Pontiac, A. E. Hardy and W. R. Kerr, of Rechester, E. P. Waldron, Byren Maddock, Cyril Olliver and Fred Lockwood all of Pontiac, M. Carter of Filmt; Rey Farrell, of Clarks-ten and E. E. Vantine, of Detroit, who paid the top price, \$237.56. The next highest price was paid by A. E. Hardy who bought a fine two-year-old heifer for \$195.

PURE BRED STOCK Reading along in Mack's notes I see where Ex-Governor F. O. Lowsee where Ex-Governor F. O. Low-den talks about pure bred stock among farmers. It certainly is hard to get some started. I believe in pure bred stock myself, whether for beef or dairy purposs which it may be, I don't mean you all have to have thes same kind of breeds, there is quite a number of both kind, also the same way in swine. There has been some registered swine and bulls purchased here, and the owners did not dare charge 50c more for pigs than' they do for scrubs, if he did say I can get them cheaper to so-and-so. It seems to make no difference It seems to make no difference 80. about the breed, and the same way in cattle line, one of our neighbors purchased a registered Durham bull, purchased a registered Durham buil, paid a big price for him, and he only charged 50c more for the service of him than they did for their scrubs, but this man was obliged to sell him or just keep him for his own use, of which he did for a while. But that 50c was a heart breaker. Pure breed stock for me.—A Sub-scriber Lake Co. scriber, Lake Co.

The Experience Pool

HOUSES OF HOLLOW TILE

AYRSHIRES

RED POLLED

SWINE

POLAND CHINA

WALNUT ALLEY

-FOR SALE, LARGE TYPE-

LTPCBREDGILTS Bred to my new boar Liberator Pride, Priced with the time. Nuff eed. M. M. PATRICK, Grand Lodge, Mich.

13

-GLADWIN COUNTY PURE BRED LIVESTOCK ASSOCIATION. Hereferd, Shorthern, Jersey and Holstein cattle; Durse-Jersey, Peland China Hampshire hogs; Oxferd, Shrepshire and Aplace to Duy good breeding stock at reason-ble prices FOR SALE DUROG BRED SOWS OR OPEN sows to farrow in spring beginning March 6th Always satisfaction or money back. B. E. KIES, Hillsdale, Mich. ble prices, FRED B. SWINEHART O. E. ATWATER President Gladwin, Mich. BRED GILTS now ready to ship, bred to boars of Bob Clansman, Defender and Joe breeding at farmers prices. H. O. Swartz, Schoolcraft, Mich. BOARS AT HALF PRICE. BIG TYPE bred in the purple, sired by Mich. Buster, A Giant and Butler's Big Bob. No better preeding. A big rugged, big-boned boar ready for service, registered, for \$25.00-\$30.00. JNO C. BUTLER, Portland, Mich. BIG TYPE P. C. SPRING PIGS EITHER SEX from large growthy dams and sired by choice herd boars. Come and see our stock, prices reasonable. L. W. BARNES & SON, Byron, Mich. POLAND CHINA BRED GILTS Bred to Hillcreat Liberator by Liberator Leader the 1920 Grand Champion and to Big Prop-pect by Liberator Buster the 1921 Grand Champion. They will start you right in the breeding industry. Exceptional bargains. Write for prices. F. B. LAY, Kalamazoo, Mich. **BIG TYPE POLAND CHINAS** Spring pigs all sold. For fall pigs, write W. CALDWELL & SON, Springport, Mich. Big Type P. C. Sows bred to Big Bob Mastadon, S1.075 crash Jan. 5. C. E. GARNANT, Eaton Rapids, Mich. DUROCS FOR SALE EXTRA FINE SEPT AND OCT HARLEY FOOR & SONS, Gladwin, Mich., R 1. PEACH HILL FARM TRIED sows and glits bred to or sired by Peach Hill Orion King 152489. Satisfaction guar-anteed. Come look 'em over. Also a few open glits. INWOOD BROTHERS Romeo, Mich. Bring your everyday preblems in and get the experience of other farmers. Questiens ad-dressed to this department are published here and answered by you, our readers, who are graduates of the School of Hard Knocks and who have their diplomas frem the Cellege of Experience. If you don't want eur esiter's advice or an expert's advice, but just plain, everyday business farmers' advice, send in your question here. We will publish one each week. If you can answer the other fellow's question, please do so, he may ans-wer one of yours some day! Address Exper-lence Pool, care The Business Farmer, Mt. Clemens, Mich. AM SELLING A GREAT OFFERING OF DUROC BRED SOWS AND GILTS March 4th, mostly mated to Orion Giant Col., a son of Ohio Grand Champion. Get on mail-ing list for catalog. W. C. TAYLOR, Milan, Mich. PURE-BRED DUROC JERSEY HOGS We usually have goed bears and sows of all ages for sale. Reasonable prices. LARRO RESEARCH FARM. Box A North Enc Detreit, Michigan. Duroc Jersey Bred Stock all Sold. Orders taken for wentling pigs. 1,000 pound herd bear. JOS. SCHUELLER. Weidman, Mich. **HOUSES OF HOLLOW TILE** In a recent issue of the Business Farm-er I noticed an inquiry from R. C., Ithaca, Mich., in regard to houses built tile. We have one built of Natco hollow tile in 1918 with which we are well pleased and would be pleased to show him if he desired. We are loca'd 4 miles west and one mile north of Chesaning, or 4 miles south and 1 mile east cf Brant Center. There are also several others in this community.—Mark Brewer, R. 3, Chesaning, Mich. OAKLANDS PREMIER CHIEF Herd Boar-Reference only-No. 129219 1919 Chicago International 4th Prize Jr. Yearling BOOKING ORDERS FALL PIGS AT \$25 BLANK & POTTER Petterville. Mich. FOR SALE GUERNSEY BULLS READY FOR % of bloed of my heifer Norman's Missaukes Red Rose, World Champion G. G. Sired by her ine. Dame fininshing splendid A. R. Records. A. M. SMITH, Lake City, Mich. DURGC JERSEY BOARS. Bears of the large, heavy-boned type, at reasonable prices. Write, or better, come and see. F. J. DRODT. R 1, Monroe, Mich. X FOR SALE GILTS BRED TO FANNIES' REGISTERED GUERNSEY BULLS Prices right. H. E. LIVERMORE & SON, Romes, Mich. WE OFFER A FEW WELL-SHED SELECT-Wed spring Duroe Means, also bred sews and Gilts in season. Call or write McMAUGHTON & FORDYGE. St. Louis, Mich. prices. Dr. W. B. Baker, 4800 Fort St. W. Detrolt, Mich Durocs. Hill Crest Farms. B cd and open sows Band gits, Boars and spring pigs. 100 head. Farm 4 miles straight S. of Middleton, Mich., Gratiot Co. Newton & Blank. Perrinton, Mich. FOR SALE—REGISTERED AYRSHIRE bulls and bull calves, helfers and helfer calves. Also some choice cows. FINDLAY BROS. R 5, Vassar, Mich. Duroc sows and slits and to Wait's King 82949 Dwho has sized more prize winning pigs at the state fairs in the last 2 years than any other Du-roc boar. Newton Barunast, St. Johns. Mich. THREE YOUNG RED POLLED BULLS FOR asie. Sired by Cosy Bils Laddia. He took the prize at dix State Fairs. PIERCE BROS., Eaton Rapids, Mich., R 1 FOR SALE: ONE DUROC BOAR FROM Brookwater breeding stock. Choice spring piga JOHN GRONENWETT. Carleton, Mich. 81) FOR SALE: HERD BOAR A MODEL ORION King, a line bred and son of Jackson's Orion King. Call or write CHAS. F. RICHARDSON, Blanchard, Mich. FOR SALE PURE BRED CHESTER WHITE BOAR. T. J. SWEENEY, Brant, Mich. Big Type Poland Chinas. I have a few more of those big boned, high backed, smooth sided boars left. The kind that makes good at one-half their value. Come or write and let me tall you what I will do. A. D. GREGORY, Ionia, Michlaan. THE FINEST DUROC JERSEY HOGS in Michigan. Nearly 100 to choose from. Bred Sows, Gilts, Fall pigs, either sex. Write us your Sows, Gilts, Fall pigs, either sex. Write us yo wants. Farmer prices. SCHAFFER BROS., Leonard, Mich., R 1 POLAND CHINA **OWOSSO SUGAR CO.'S** boar pigs. Sired by F's Clansman 391211, Michigan's 1920 Gr. Champion boar, and by Smooth Busier 396523, Michigan's 1920 Ist Jr. Yearling Boar. Immune by double treatment. Priced to sell. Write or see them. Free livery to visitors. A. A. FELDKAMP Manchester, R. R. No. 2 Mich. PRAIRIE FARM More of the better kind of Draft Horses used on the farm would lower the cost of production. Heavy Draft Horses on short hauls are economy and will lower the high cost of transportation. EONARD'S BIG TYPE P. C. BOAR PIGS at wearing time, from Mich. Champion herd \$25 with pedgrees. Satisfaction guaranteed. Call or write E. R. LEONARD, R 3, St. Louis. Mich. Buy Heavy Draft Mares and raise your own power on the Farm. L. T. P. C. \$15-\$20-\$25 We are offering our 1921 fall crop of pigs at the above prices. They are sired by Hart's Black Price and Right Kind Clan. F T HART, St. Louis, Mich.

We have fifty mares in foal to select from. They possess the best blood that Belgium has ever produced. Belgian Draft Horses are getting more popular. Their qualities workers cannot be excelled by any other breed.

as Before buying see the sires and dams and also see the largest breeding establishment of Belgian Draft Horses in the world. Located at

ALICIA, Saginaw County, MICHIGAN



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March 11, 1922

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68 AGRE FARM FOR SALE; MOSTLY ALL cleared. Fair frame house, new barn built last year, 32x46; frame granary 14x20, good well 280 feet deep; well drained, good ditches and fences; clay and black loarn land; good road, mall route, schools and churches. Located in Bay county, Garfield township, Section six, With horses, cattle and implements if wanted. MARTIN SMITH, R 1, Rhodes, Mich. STROUT'S NEW CATALOG FARMS, FARMS farms, Just out-describing in detail 1200 poultry, fruit, truck, stock, dairy, grain, cotton menta-small farms near big cities-large farms, in rich sericultural districts, farms with stock, tools, seed, equipment, ready to produce from date of possession, many water rond and takeside properties. Just look on page 11 and see how \$700 gets a 225-acre sum with horses, 8 cows and heifers, sheep, bools, furniture: 300 apple trees; 6-room house, barn, poultry houses, carage; everything only \$2200. Several pages devoted to Special Bar and farms-requiring first payments of \$500 the organization that hast year sold 5100 im proved farms thoughout the 38 states and Canadan provinces in which it operates is yours for the asking. Shart right-get this propus for the growing season. Write for FREE copy today. STROUT FARM AGENCU. MISCELLANEOUS . TOBACCO KENTUCKY LEAF TOBACCO, 3 YEARS old, nature cured. Don't send a penny, pay for tobacco and postage on arrival. Extra fine quality chewing or smoking, 10 lbs. \$1.25. medium quality smoking, 10 lbs. \$1.25. FARMERS' UNION, D57, Hawesville, Ky. TOBACCO: KENTUCKY'S PRIDE, RICH mellow chewing or smoking 10 lbs, \$2.00; Mild smoking 10 lbs, \$2.00; 20 lbs, \$3.50; FARMERS CLUB, Mayfield, Ky. LEAF TOBACCO, 3 YEARS OLD. PAY FOR tobacco and postage when received. Chewing 5 lbs. \$1.50; Smoking 6 lbs. \$1.00. FARMERS' GRANGE, No. 94, Hawesville, Ky. I WANT TO FIND AND RENT A FARM furnished, to be worked on shares. WM. BURNS, R2, Brant, Michigan. FOR SALE: ISABELLA COUNTY BEAN and beet farm, 98 acres, excellent buildings no better roots and foundations. All rodded. Mich. Consolidated Light and power available via a special line. One mile from village of Shepherd and Ann Arbor milroad, one-half mie from M³ 4 on County reward road. Write owner, N. W. STRUBLE, Shepherd, Mich. TOBACCO, KENTUCKY'S NATURAL LEAF, Mild, Mellow smoking 10 lbs. \$2.25; Hand se-lected chewing 3 lbs. \$1.00. Free receipt for preparing. WALDROP BROTHERS, Murray, Ky. NURSERY STOCK AND SEED RECLEANED ITO SAN SOY BEANS, LIM-ited supply at \$2.00 bu. E. C. HARRISS, Al-legan, Mich. 90 ACRE DAIRY FARM, GOOD BUILD-ings, fruit, water, 1 mile to city limits, ½ mile to school. Write W. C. BOGART, Big Rapids, Mich., R-1. ITO SAN SOY BEANS, EARLY MATURING strain at exceedingly low prices. SPRING VAL-LEY FARM, Bluffton, Ind. 63 ACRE FARM MONROE COUNTY, GOOD location, fine fruits, soil, drainage, buildings, water, timber, pasture. Raises fine crops. Bar-gain. Faling health, must sell. Write owner. C L. HOWARD, Petersburg, Mich. FOR SALE: FINE QUALITY, RECLEANED Ito San Soy Beans at Farmers' prices. Order at once. G. P. PHILLIPS, Bellevue, Mich. 120 AORES BEST FARMING LAND ABOUT 90 acres cleared, 1-4 mile trunk line gravel road. Young orchard, good well. \$4000 of build-ings, \$2000 personal property for eash value of iend. For prices and terms address owner J. W. PREVOST, Prescott, Mich., R 2, STRAWBERRY PLANTS STRAWBERRY PLANTS FOR SALE. SEM-ator Dunlar, Gabson and Dr. Burrill. 40c per hundred, \$3.00 per thousand. Progressive Everbeirers \$1.00 per hundred, \$10.00 per thousand. ROBT. DE GURSE, Ovid, Mich. FOR SALE, 120 A. FRUIT AND DAIRY farm, Oakland County. State road; 25 miles from Detroit; good buildings, For price, etc., write J. W. COLE, Northville, Mich. (P) STRAWBERRIES, 2 LEADING VARIETIES, 1000 Dunhap Plants \$3.25; 1000 Gibson Plants \$3.70; 1000 Raspberry Plants \$12.00. FRED STANLEY, 124 Main St., Bangor, Mich. ELGHTY-ACRE FARM, ALL CLEARED, good soil, fine buildings, good location, easy ferms. CHAS. WUBBENA, Standish, Michigan, Box 954. STRAWBERRY PLANTS: SENATOR DUN-and Warfield at \$4 per thousand and Guari-andeed strictly first class or money refunded. Our 16 years experience costs you nothing. You get it with every purchase you make of us. Our free ortalogue illustrates and describes ten best varieties, including the three best everbearers. A wainable book for the grower. HAMPTON & SONS, R 20, Bangor, Mich. FARM BARGAINS, NO. ONE 240 ACRE afrm on cement road. Four miles to Port Huron. Write BOX 244. Croswell, Mich. 7 ACRES WATERED AND DRAINED, muck celery hand. Particulars write L BOX 94, Past Jordan, Mich. wanted: small 5 to 15 ACRE FARM with good small house near town. Must be a bereain. Give price and particulars addressing ROX E., Care of Michigan Business Farmer, Mt. Clemens, Mich. (P) FILM DEVELOPING KODAK FILMS DEVELOPED AND SIX prints, 25c. MODERN PHOTO WORKS, Box M. B. F., La Crosse, Wis. KODAK FINISHING! NOT THE CHEAP way, but the neat, at a reasonable price. Mail us a trial order and prove to yourself that it is not only what you pay but what you get for what you pay. Our aim always has been and always will be. "the very best prints from every nera-tive." MOEN PHOTO SERVICE, Quality Ko-dak Finishing Rox M, R. F., La Crosse, Wis 80 A. FARM FOR SALE: GOOD BUILD ines, orchard and water. JOS. MOSER, Post-city, Mich. (P) 60 ACRES CLAY LOAM SOIL, 50 IMPROV-ed, good house, barn, other buildings, with stock, tools, penty of hay and grain, all for \$5000.00. Inquire owner RALPH LATHROP, Le Roy, Mich, R 3. 120 ACRES, BEST OF SOIL, LOTS OF standing timber, easily cleared. Market 3 miles. \$20 per acre. EDW. ERLANDSON, South Boardman, Michigan. BEES AND HONEY BEE HIVES. SECTIONS, COMB FOUNDA-tion, smokers, etc. Complete outsits for begin-ners with or without bees. Agents for A. I. Root Co. goods in Michigan. Send for catalog. Beeswax wanted. M. H. HUNT & SON, 508 N. Cedar St., Lansing, Mich. FOR SALE: 80 ACRES, DAIRY FARM with stock and tools; feed; \$8500; in Keni county, Weekly income of \$40 from dairy. For particulars write BOX M. G., care Business Farmer, Mt. Clemens, Mich. PURE CLOVER HONEY, 10 lbs. \$2.00; 60 lbs. \$10.00, prepaid by mail or express. BLOOM-FIFLD APIARIES, Ed Stewart, Port Hope, Michigan. FOR SALE, 114 ACRES 2 MILES FROM town, good buildings, plenty water, fruit, ber-ries. Good reads. Priced right, easy terms. UHAS. UPLEGGER, Rhodes, Mich. FOR SALE OR TRADE. FINE 160 ACRE farm, fine buildings. On main graveled road, well located near markets and schools. BOX A, Michigan Business Farmer, Mt. Clemens, Mich. GENERAL HAY FOR SALE. BUY HAY IN CAR LOTS. Write for prices, stating kind wanted, to FAR-WELL MILLS, Farwell, Mich. CELERY, GUARANTEED, SILVER KING multiplying celery. A limited supply at the very low price of \$1 for 2 roots. 2 roots will multi-ply to about 50 in 3 years. Can be grown on any soil. Cut every 10 days. Nice fresh celery from May till Aug. 15th. Sond your order a.rly. Full directions with each order. SILAS ROGERS, Hubbard Lake, Mich. FOR SALE, SMALL POULTRY FARM. Pleasant home in thriving town. A bargain. Other interests compel sale. For particulars ad-dress STANLEY GREENE, Breckenridge, Mich. FOR SALE OR EXCHANGE, BY WIDOW with or without personal, 200 acres, Improved. Near Sarinaw, Plenty of barns, two houses, \$100 per acre for personal and farm. Reason-able terms. Write MRS. CHARLOTTE FAY, Burt, Mich. (FOR SALE) FIVE SHARES IN GLEANER Clearing House, Will make discount for cash, Good investment. Address BOX 102, Gladwin, Michigan. STOCK FARM, 187 ACRES, 10 ACRE AP-ple orchard, 30 acres second growth timber and belance in pasture land and under cultivation. 14 miles from Adrian, Mich., 1 1-2 miles from Devils I ake. Two large barns and ello, good house. Must sell. Price \$10,500, \$2000 cash. M CARPENTER, 323 Tuxedo Ave., Detroit, Mich. ALL MEN, WOMEN, BOYS, GIRLS OVER 7, willing to accept Government Positions 185, (stationary or traveling) write Mr. zment, Dept. 355, St. Louis, Mo., immed-Ozme iately. WANTED: TENANT FOR HALF SECTION of excellent land in Hillsdale County, Mich. Applicant should have sufficient funds to own horses and tools and half interest in other live stock. Good milk market, Write H. R. SMUTH, Room Four, Record Building, Union Stock FOR SALE: THREE 160 ACRE FARMS, two miles from Sandusky, Sanlac County, Michigan. New land cleared and cultivated in 1920. Large barns and modern houses built in 1921. Write owner JOHN O'CONNOR, San-dusky, Michigan. Yards, Chicago, Ill. FOR SALE: 120 ACRES OR WILL SELL 80 acres with main buildings. Level, fing location clay beam, gravel roads, four miles from good town. HENRY STEINMAN, Remus, Mich. WE PAY \$200 MONTHLY SALARY, FUR-nish rig and expenses to introduce our guaran-teed poulity and stock powders. BIGLER COM-PANY. X682, Springfield, Illinois. BUY FENCE POSTS DIRECT FROM FOR-est. All kinds. Delivered prices. Address M. M., care Michigan Business Farmer, Mt. Clem-ens, Mich. EXCEPTIONAL BUILDINGS, LOCATION, coil, 148 acres, main road, town mile, priced right. Want farm nearer Detroit. ERNEST LA-FLEUR, Vermontville, Mich. (P) FOR SALE: EQUIPMENT FOR MAKING cheese. Inquire of FRANK L. CUSTER, R 2. Event, Mich. FOR SALE, 160 ACRE FARM AND 40 acre farm. Write OHARLES FENTON, Hop-kins, Mich., R 3. (P) ROUND WHITE CEDAR FENCE POSTS, S to T inch tons, T and 8 ff. longths. Get our delivered prices-Mfg. to user. R. POCH & OO., Rogers, Mich. (P) 120 ACRES NUMBER ONE LAND, BEST of buildings, fruit, timber. One mile to Dirie Highway, Station, church, school, 80 miles from Detroit, R. W. ANDERSON, Clariston, Mich. (P) 40 AGRES, BUILDINGS, 20 CLEARED, 11 re, 16 wood timber, flowing spring 2 miles ackes, churches. FRANK NOLAN, Harrietta, Ich. (P) HIDES TANNED OR LEATHER FOR Re-pair work sold direct. Prices reasonable. Let us send samples. OOCHRAN TANNING OO., Green, rille, Mchigan. (P)

did not at that time expect to see such drastic price declines. We have felt right allong, however, that the Detroit market has been in the hands of manipulators and that it could not much longer continue its upward trend without occasional slumps. That is why we have been anxious and "nervous" about this market. We have wanted our read-ers to get the highest possible prices for their beans but we have been afraid that the rapidly advancing p fices might lead us all into an un-

prices to any great extent.

POTATOES

PRICES ONE YEAR AGO

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TRADE AND BUSINESS REVIEW

TRADE AND BUSINESS REVIEW THE general business situation, the country over, seems to be improving rapidly and good judges of the industrial and com-mercial outlook, predict a steady gain from now until spring build-ing operations are in full swing. Merchants are completing their Merchants are completing their spring buying whi h has been fairly large in volume. Severe storms, in many districts, have had much to do with limiting the volume of the week's retail trade. The steel and iron trade is expanding rapidly, as a result of an increase in the number of orders for all of the various spe-cialties in this line. Many of the steel plants are expanding and increasing their capacity for produc-tion a fact that indicates that oper-ators expect a material increase in this summer's business over that of recent years.

The wool market, while it is rather dull, is decidedly firm from the standpoint of price; the government auctions, which have just come to a close, revealed the pressing character of the demand and stabilized the market which was beginn-ing to hesitate because of the ef-fort on the part of buyers and manufacturers to check the upward movement. The activity in the demand for the raw material is in direct con-trast with a lifeless market for woolen goods which nearly always developes at this season of the year. The cotton market is firm and fairly active but the demand for cotton cloth is just about on a par with

the market for woolen goods. While wheat prices have eased off, somewhat, during the week, in the main, farm products have been firm and fairly active. The men who make a business of reading the future, in connection with commerce and trade in general, are premerce and trade in general, are pre-dicting a boom in all lines that go directly to the farmer; there are those, however, who predict that the farmer will not, immediately, abandon his erst while conservi-tism but will operate with extreme and unwonted caution during the coming spring and summer months and unwonted caution during the coming spring and summer months. The increase in the value of farm staples is certainly a boon to the agricultural classes of this country; verily, it is an ill wind that blows nobody good. We are told that it is the failure of Russia to produce her usual share of human food that is usual share of human food that is responsible for the growing export demand for our products.

demand for our products. Reports, from the great financial centers of the country, indicate that cash is piling up in the bank vaults, while the over-careful owners are seeking opportunities for the safe investment of the same. Long lists of mortgage sales, in the columns of certain local papers reveal the fact certain local papers, reveal the fact that some of our leading banks have been speculating in real estate securities, land contracts, etc.; a fact that may, in part, explain the lack of funds for farm loans to assist

production. Business has been booming, of late, on the New York Stock Ex-change and prices, for all of the dividend-paying stocks have been dividend-paying stocks have been working higher under persistant buying; both railroad and industrial stocks have been decidedly active, a fact, that speaks well for the in-dustrial outlook for the coming sum mer season. Call money has been easy, ranging between 4 and 5 per cent. The expansion in business cir-cles is indicated by increased bank clearings which, for the week, amounted to \$7,189.000.000. clearings which, for the amounted to \$7,189,000,000.

WHEAT

The wheat market rules fairly steady since the recent weakness

No. 2 No. 2			1.44	1.40	1.483
No. 2	Mixed	2.1	1.41	1	1.44 %
				AR AG	o
Detroit	INO.	1.83		1.81	1.81

Edited by H H. MACK

MARKET SUMMARY .

Wheat quiet. Corn and oats steady. Rye 2c higher at Detroit and Chicago. Beans and potatoes easy. Butter firm and eggs weak. Live poultry unchanged. Dressed hogs and calves dull. Considerable activity in Detroit live stock market and tone is steady. Hogs decline on Chicago market.

(Note: The above summarized information was received AFTER the balance of the mar-ket page was set in type. It contains tast minute information up to within one-half hour of going to press.—Editor.)

looks as if the advance has only been temporarily checked. Export demand is good and domestic sup-plies rapidly dwindling to the dan-ger point. Following a period of dullness which should be expected as a natural reaction from the sharp advances during February we may advances during February we may expect to see another upward trend set in.

CORN

The corn market started out last week strong and there were several

Grade IDetroit Chicago N. Y. No. 2 Yellow .67 .58 3/4 .76 ½ No. 3 Yellow .65 .56 3/4 .76 ½ No. 4 Yellow .65 .56 3/4 .76 ½ PRICES ONE YEAR A60 Detroit
No. 3 Yellow .65 .66 % No. 4 Yellow . PRICES ONE YEAR AGO Image: No. 2 Yell No. 3 Yell No. 4 Yell Detroit
No. 2 Yell No. 3 Yell No. 4 Yell Detroit 1.72 .69
Detroit .72 .69
A DESCRIPTION OF A
advances in prices but before the close of the second day weakness developed and declines in prices re- sulted. From then until the close Saturday afternoon there was an up and down trend to the market but in spite of the weak condition prices finished the week ic higher at De- troit, No. 2 yellow being quoted at 68c. The market at Chicago closed at the end of the week from 2 to 5c lower than it was the same day one week before. Demand was good the entire week and all breaks in prices brought out buyers in force. Ex- porters were good customers and they took considerable grain. Re- ceipts continued to decline at all points. Chicago received only 1,982 cars, against 3,625 last week and 3,028 one year ago. Shipments from Chilcago were 5,056,000 bu., or nearly 500,000 bushells more than were received.

RYE

Rye followed the trend of wheat lest week and on Saturday was dull and lower. Buyers showed little

THE WEATHER FOR NEXT WEEK <text><text><text><text><text> As Forecasted by W. T. Foster for The Michigan Business Farmer

Foster's Weather Chart for MARCH 1922. 4567891

WASHINGTON, D. C. March 9, 1922.—The week centering on March 1922.—The week centering on March 1922.—The week centering on March 19, 2000. The more start of the start of t

W.S. Foster

interest in the market. No. 2 is \$1.03 at Detroit, compared with \$1.05 one week ago.

OATS

Call Contract of the Contract	Irade	ID	atroit	Poblassa	2
No. 2 V				I Unicago	N. Y.
No. 3 V	Vhite .		.43 .41	40 3/4	.49
No. 4 V		S ON	E YE	AR AGO	

the price. Buying has been fairly active of late and a good-sized dent was put in the visible supply.

BARLEY

Trading in barley was quite active at Chicago last week shipping sales amounting to 10,000 bu. On that market the prices have advanced to 65@71c per bu. The Detroit market was quiet and prices remained unchanged at \$1.25@\$1.35 per cwt.

BEANS

The very thing we have feared and predicted would happen to the

BEAN PRICES PER CWT., MAR. 7, 1922
Grade Detroit Chicago N. Y.
2. H. P 6.00 6.25 Red Kidneys 7.25
PRICES ONE YEAR AGO
Letroit 3.95
Detroit bean market has actually laken place. This market has been going skyward for several weeks out reacted at the close of last week and a sharp slump took place, prices leclining forty cents per cwt. in the bourse of three or four days. Last week we suggested that farmers might find it to their advantage to sell at prevailing prices, though we

afraid that the rapidly advancing p-fices might lead us all into an un-warranted belief that prices were going very much higher and induce us to hold our beans for prices which would never materialize. While we do not believe that the re-cent slump is anything to worry about it is something to be watched very closely. We look for the mar-ket to recover most if not all of its strength before the next cron Much strength before the next crop. Much We look for another effort to bol-ster up prices before the planting season, and we believe farmers who have not sold might do well to wait until the next bulge, providing the recent declines have affected local prices to any great extent

12,912-51	No.2 White No.3 White No.4 White
	PRICES ONE YEAR AGO
0. 2 0. 3 0. 4	White
	Grade Detroit Chicago N. Y.
DAT	PRICES PER BU., MAR. 7, 1922

Potatoes have firmed up a little following several weeks of a drag-SPUDS PER CWT., MAR. 7, 1922

Detroit Chicago New York Pittsburg gy, unsettled market. Prices are lowwere a month ago, but not materi-ally so. While there are many who lack faith in higher prices they do

have feared	not look for very much lower prices.
appen to the	On the other hand the majority of
MAR. 7, 1922	the dealers seem to be of the opin-
Dhicago N. Y.	ion that stocks are unusually light for the season and that higher prices
6.25	will be seen. York state farmers are
7.25	quite unanimous in their belief in
AGO	higher prices and are selling very
IC. H. P.	little at prevailing values. Local and
3.95	primary points in Michigan are not
has actually	any too well supplied with potatoes
ket has been	due to the great storm which has
veral weeks	tied up shipping in the potato sec-
of last week	tion for the past two weeks. As a
place, prices	result we look for a stiffening of the
or cwt, in the	market and possibly higher prices
days. Last	within the next few days

HAY

Eastern markets are well supplied

	No. 1 Tim.	Stan. Tim	. No 2 Tin
Chicago	19.00 @ 20 1 21.00 @ 23 24.00 @ 26	8.00@19	17.00 @ 18 18.00 @ 21 22.00 @ 21
Pittsburg	22.50 @ 22 2	0.50@21	18.00@1
	Light Mix. C		
Detroit . Chicago	18.00@211	8.00@19	17.00 @ 1
New York Pittsburg	23.00 @ 25 2 19.50 @ 20 2	0.00@23	20,50 @ 21
н	Y PRICES A	YEAR A	GO
Call Contraction of the	No. 1. Tim.	Stan. Tim	. No 2 Tim
Detroit	20.00@21 1	.00@20	19.00@18
	No. 1 Light Mix, C	No. 1 lover Mix.	No. 1 Clover
Detroit	19.00 @ 20 17	.00@18	17.00 @ 18

ever markets in that section of the ever markets in that section of the country show an inclination toward firmness and business promises to improve some within the immediate future. Cold weather and heavy snows have improved the market throughout the west and the better grades are saling at higher learch grades are selling at higher levels many points. Bad weather has held up receipts which is also having much to do with the tone of the market. Should markets become much stronger and prices advance the gain would hardly amount to a substantial sum owing to the time of the year. Advances made last week only amounted to \$1 on a ton at the most.

WOOL

The wool market, while it is quiet. There is very little wool continues about steady, but very moving and there is a hesitating tendency. Sales of new clip in the

falling an 15, the w ere sm st weel rk at om sli g prod ale tha vors or e coun rd mar rly, la ve a t hardly st week EAST

Cattle: ht hand 8,50; bu 09; fer vs, \$2.2 and for ingers, 00; 50c pts, 13, avy, \$1

attle

1922

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to iate est are not reported so often, grow-rs' and buyers' ideas being rather ar apart, according to reports. This condition is reflected in the est of the market, with the result hat, though prices are quotably un-hanged, the undertone in uncertain nd w waiting. Mills are buying less

The Commercial Bulletin gives col quotations at Boston un-hanged from last week, as follows: Ohio and Pennsylyania fleeces: elaine unwashed, 47 @50c; fine nwashed, 38 @ 39c; 1-2 blood comb-ts, 42 @ 44c; 3-8 cambing, 40 @ 42c. Michigan and New York fieeces; elaine unwashed, 44@45c; fine nwashed, 34@36c; 1-2 blood un-ashed, 39@41c; 3-8 blood un-ashed, 39@41c; 1-4 blood un-ashed, 87@39c.

Wisconsin, Missouri and average ew England: 1-2 blood, 38@39c; -8 blood, 37@38c; 1-4 blood, 36 37C.

LIVE STOCK MARKETS.

The cattle trade showed marked aprovement, last week, over the eek before, one of the principal eek before, one of the principal uses being the short run in Chi-ago where the falling off from the eek before equaled 7,500 head. rices advanced, early in the week, and held about steady until the ose on Saturday. The kind that iowed the most gain were the cat-a selling between \$7.25 and \$8.25 e selling between \$7.25 and \$8.25. he supply of rough strong weight eers was rather liberal but only a w high-quality cattle came to w high-quality cattle came to and. The demand for heavy steers greatly improved from this day st week, as the conviction is gen-al, among good judges of market inditions, that the crop of long-d cattle will prove to be far short the needs of the case.

Eastern dressed beef markets arted out rather slow, last week, rt they are making it up this week a result of a rapidly increasing mand. In some parts of the state e supply of cattle on feed is small, fact that makes an encouraging itlook for those who are starting the business.

Reports from interior points in-cate an active demand for feed-g cattle; feeders from Mineral pint, Wisconsin, are already buying the Chicago market in anticipaon of an early rise of pasturage. Last week's sheep and lamb reipts were practically the same as r the week before; the big run the week before and the large timates for last week, caused ices to break early in that period rt part of the loss was regained, ter and the close was firm and ithin 25 cents per cwt. of the eek's high time. Prospects of armer weather hurt the trade in essed lamb and mutton, late last eek and the market for live ani-als was obliged to follow suite.

als was obliged to follow suite. he demand for feeding lambs ex-rienced very little change from e levels of the week before, the nge being from \$12 to \$13.75 r cwt. Shearlings brought \$13.75 \$14.50 in the Chicago market. Illness and hesitancy in the wool arket has also tended to take the re-edge off the demand for all re-edge off the demand for all

asses of breeding sheep. Chicago had an active hog trade l last week resulting partly from falling off in arrivals of more an 15,000 hogs from the showing the week before. Shipping orders are small in the Chicago yards, st week, but small stocks of fresh rk at all points kept the market om slipping. Export demand for ale than ever and the outlook vors one of the best years, for the portation of food products, that food products, that e country has ever known. The rd market made a new "high" rly, last week, but it begins to we a tired look and the situation The hardly as strong as on this day st week.

EAST BUFFALO LIVE STOCK MARKET

MARKET March 7th Cattle: Receipts, 3,000; heavy; lower; ht handy steady, shipping steers, \$7,50 3,50; butchers, \$7,50@8.25; yearlings, @9; few, \$10; helfers, \$5,50@7.75; yes, \$2,25@6; bulls, \$3.50½5.25; stock-and feeders, \$5@6; fresh cows and ingers, \$45@110. Calves: Receipts, 00; 50c lower, \$3@13: Hogs: Re-pts, 13,000; steady to shade lower; avy, \$1150; mixed, \$1175; yorkers,

\$11 75@11 85; Mght do, \$11 50@11 75; plgs, \$11 25@11 50; roughs, \$9 25@9 50; stags, \$4@6: Sheep and lambs: Recepts, \$.000; 25c@50c higher; lambs \$8@16; yearlings, \$10@15; wethers, \$10 50@11; mixed sheep, \$10@10 50.

MISCELLANEOUS MARKET QUOTATIONS Detroit, March 7th

BUTTER-Best creamery, in tubs, 34 1-2@35c per lb. EGGS—Fresh, current receipts,

23@240. APPLES—Greening, \$3.50 @ 3.75; Steel's Red, \$3 @ 3.50; Baldwins, \$2.75 @ 3; Spy, \$3.50 @ 4; western, baxes, \$3 @ 3.75. ONIONS—Eastern, \$3 @ 8.50 per

per 100-lb. sack. POPCORN-Globe, 5c: Little

Buster, 10c per lb. DRESSED HOGS-Small to me-

dium, 12@13c; heavy, 10@11c per Ib. DRESSED CALVES-Choice, 15

©16c; medium, 12@13c; large coarse, 5@10c per lb. LIVE POULTRY — Best spring

chickens, smooth legs, 28c; staggy springs, 25c; leghorn springs, 25c; large fat hens, 30c; medium hens, 28c; small hens, 26@27c; old roost-ers, 17c; geese, 20@22c; ducks, 35c; choice large trukeys, 35c per Ib.

WEEKLY MARKETGRAM

WASHINGTON, D. C., For the week ding March 4, 1922

WASHINGTON, D. C., For the week ending March 4, 1922. DAIRY PRODUCTS: Butter markets firm with prices showing advances aver-aging about 2 cents higher in eastern markets and about 1 cent higher at Chi-cago. Demand latter part of week active; all grades moving well. Closing prices 92 score; New York, Boston and Phila-delphia 38 cents; Chicago 37 cents, Cheese markets active following declines on Wisconsin cheese boards Feb. 27, Prices at Wisconsin primary markets March 3: Twins, 18 1-2c; Daisles, 20 cens; Double Daisles and Young Ameri-cas, 19 1-2 c; Longhorns, 20c; Square Prints, 21 1-4c. FEED: Demand slow, Future offerings

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GROP REPORTS

CHEBOYGAN—Practically no change in market conditions since last week Just recovering from effects of big storm of week ago. Roads improving but still rough for travel. Almost no heavy hauling being done. Entertaining motion picture program dealing with wild ani-mal life, taken on the shores of Burt Lake and elsewhere in this district being given this week by G. H. MoGilvray of State Game Dept, Farm madagement meetings to have been given by county agent postponed on account of storm. Crows have been seen for three weeks,

pressging an early spring in splite of the heavy mow fall. Fall grains well protected and should yield abundantly. "Heavy snow-Fruit will grow" goes the old adage.-M. G. F., March 2. GRATIOT.-Winter wheat is suffering, freezing and thawing. The sugar compa-nies are offering to contract beets at \$5 per ton with \$18 labor and sliding scale contract. Everyone wants hogs and are paying fancy prices. Those who sold beans early chrise their luck, Many are considering exchanging horses for cheap tractors. Alfalfa acreage gaining.-Carl C. DeWitt, March 3. INVINGSTON -- Weather has been moderate with light fall of snow on ruesday, Farmers are busy getting up wood and getting out manure in prepa-ration for spring plowing. The usual number of auction sales are being held, Some farmers moving to town while others are renting their farms,-Geo. Coleman, March 3. ST. JOSEPH-March 1, quite heavy fall of snow, March 2, lovely sunshine and thawing fast. Farmers hauling few logs to mill and cutting wood. Some cutting wood on shares. Eggs are way low, Rye is advancing in price slowly, March 3, weather better, sun shining and birds singing. Some skunk trapping be-ing done here,-Mirs, H. C. Holtz, March 3.

birds singing. Some skunk trapping being done here.—Mrs, H. C. Holtz, March 3.
KENT (N)—Having our first spring weather this week. Saw first robins last Tuesday. The sleet storm of last week did but slight damage in this vicinity. Farmers are getting restless and are hauling manure, getting up wood and attending auction sales. Sales every day now. Bids rather slow. Some beans and grain being sold. A few potatoes also. Not many left here.—C. A., March 3.
MONROE—Weather is fair, freezing nights, thawing days. Not much doing. Prices of products some better, but not much left to sell; some oats and corn being sold to farmers for seed and feed. Most of our grain went out on trucks and crop reporters give it as in the farmers hands yet. It will be found the same in lots of places.—G. L. S., March 3.
EATON—Pleasant and warm this a. m. Snow nearly all off fields. Wheat and rye looking brown. The roots are all right as yet. Farmers are feeling as if the worst of the deflation has passed. Prices for hogs and sheep are good, but cattle are low as yet. Hope to receive better prices the coming season. So we will be able to pay taxes without going to banks.—C. F. L., March 3.
MIDLAND—During the past week we have had the worst of all togenet that has been experienced here in years. Rain, while, froze as soon as it touched any-thing, fell intermittently for about 36 hours. Trees and telephone poles were unable to reach town.—C. L. H. March 2.
WEFORD (NW)—Suri shining brightly this morning. Lee not all gone from this direction were unable to reach town.—C. L. H. March 2.
WEFORD (NW)—Suri shining brightly this morning. Lee not all gone from thes week. Pick out the best man. Nearly everyone is expecting better times and the spring. Buying hay, straw and grain now, quite a bit. Township oaucus next week. Pick out the best man. Nearly everyone is expecting better times after the same here as usual.—W.A. J., March 3.

March 3: GENESEE—Some snow Friday, Roads very rough, having been cut up badly during the rain of last week. Wheat looks very brown but some of it has good growth. It may come thru very well but late sown wheat looks bad. Not many farm auction sales. Some farms going back to former owners because cannot be paid for.—A. R. Graham, March 3.

SUGAR COMPANIES OFFER \$5 PER TON FOR BEETS (Continued from page 3)

several Michigan factories to the U. several Michigan factories to the U. S. government for a period of 12 years we find that the average ex-traction of white sugar (which does not include the by-products) to be right around 12.9 per cent or 258 pounds of white sugar extracted from a ton of beets. If we take into consideration the above facts if true we now have all of the data if true we now have all of the data necessary on which to build a fair sliding scale contract on a 50-50 basis. It will be seen that sugar at one cent a pound would give to the factory \$1.29 and the grower \$1.29 out of a ton of beets. This \$1.29 is some where near the right spread to use in the advance for a ton of beets and not an even dollar

as proposed by the factories for each cent advanced in the price of sugar. "The factories are raising a point which they are stressing heavily and that is the minimum guaranteed price for a ton of beets. In this their point is well taken, but it is some-thing that cannot be gotten around on account of the bad condition of our farmers, the high taxes, high labor and large amount of capital needed to grow a beet crop requiring interest to be paid on same by the majority of growers. This is something that should be and must be considered by congress if the in-dustry is to be saved and a protec-tion tariff high enough to cover the difference in the cost of production in foreign countries and when this is properly done I do not believe is properly done I do not believe sugar will average below 5 cents in N. Y. and make the factories safe in offering a contract based on a minimum of 5 cent sugar or right around \$6 for beets on the 1922 contracts. I will concede that for

the factories to be safe in doing this a tariff of at least 2 cents on foreign sugar will be necessary. Why cannot the representatives of the factories and those of the growers meet in a conference and thresh some of these things out along strictly business lines instead of standing off submitting to conditions requiring and calling for political conferences which do not get us anywhere and operate generally to the disgust of the ordinary farmer and manufacturer?"

JUST AS OUR GRANDFATHERS THOUGHT!

THE DATE was 1867. The place was northern Missouri. The Civil War was two years away. The persons were two farmers sit-ting together on a worm fence. The theme was the only one they knew -hard times!

You know what they were saying. Their world of finance was warped and twisted. Interest rates were high and money almost impossible to get. Their good wives were gathering up eggs and selling them for eight cents per dozen. They had to beg the dealer to buy their pork. Their corn was worth fourteen cents and their oats not worth hauling

It was a hard time. What did they do? They faced the situation with hope and hard work; and in a few years their farms were paid for, their children educated, and they had a comfortable nest built for old age. But in 1867 the clouds of gloom hung close over their puzzled heads.

Today the grandsons of the farmers of 1867 are sitting in their automobiles talking hard times, and poor markets, and low prices. They are talking the language of their fathers. They are Abraham Lincoln had a poem writ-ten by a Scotchman which he kept over his desk in the White House which read, "We are the same our fathers have been." We are surely the same when depression bits over the same when depression hits our pocketbooks.

Time has shown that the farmers of 1867 and 1893 did not have all the facts, for had they been able to forecast the future days they would have been singing instead of moaning. Better days came just as truly

as better days are sure to come to us. Just as our fathers and grandfathers faced the financial chaos of their times, and turned it into order, so will we. In the meantime, there are two things we can do to help:

Let's stop talking to each other about hard times. We are not starv-ing yet, and there is no prospect of that. If we keep on suggesting to each other that things are "going to the devil," it will grease the slide to that state of things. Then we must keep suggesting to

each other that we believe in each other; pledge each other our mutual faith, to our country and the God above us, that we will stay on the job and plug and save and dig until the new economical day dawns. If we will all do that, our eyes will be wide open to enjoy the new day when it comes .- The Farmer, St. Paul.

LIVE STOCK EXCHANGE ELECTS THE Michigan Live Stock Ex-

change directors at the first meeting last week elected C. V. Tracy of Ithaca president of the Exchange for the coming year. W. J. Perry, secretary; E. E. Compson, vice-president; P. M. Granger, Charlotte, treasurer: George Boutell, Perry, secretary, E. E. Compson, Lansing, secretary-manager. The Exchange is getting ready to establish co-operative commission houses at Detroit and Buffalo.

W The O	DRELIABLE R	EMEDY
BREAKS COLDS IN 24 HOURS LA GRIPPE IN 3 DAYS		WORLD'S STANDARD FOR TWO GENERATIONS
Bromide Qui for two gene	ting within ten secon pendable family rem nd La Grippe. eriment—insist upon nine. World's standa rations. d box bearing Mr. Hil	Hill's Cascara rd Cold remedy
A	t All Druggists-30 Co. L. HILL COMPANY, DE	nia cin





MELOTTE, the Edison of Europe, manufacturer of the greatest Cream Separator the world has ever known, announces a sweeping reduction in prices. Labor conditions in general together with tremendous re-building and re-organizing efforts put forth by this big man of Belgium has resulted in cutting production costs to the bone.

And right now at this particular time exchange rates are extremely favorable. Take advantage of this condition while it lasts. Get the most for your American dollar. Buy now and save money.

Before buying any separator find out how the Melotte has won 264 Grand and International Prizes and how, for efficiency of skimming, ease of turning, convenience of operation and durability—the Great Belgium Melotte has won every important European contest. Find out why 500,000 Melotte Separators are in continuous use today.

Our 15 Year Guarantee Every Belgium imported Melotte Cream Separator is sold under an absolute, ironbound, 15-year guarantee. No Melotte is ever sold except under this guarantee. A guarantee written in plain English so that you can understand it. A guarantee that is 100% stronger than any other separator guarantee ever made. A guarantee that really guarantees something—upon which you can absolutely rely—an absolute protection to the purchasg, and which binds us to our bargain.

What U. S. Government Says :

Vibration of a cream separator's bowl will soon cost you more money in cream waste than the price of your separator. U. S. Government Bulletin No. 201 says that a perfectly true motion of the bowl is absolutely necessary. the bowl is the vital part of any separator—the part where the cream separation takes place. 3

Self-Balancing Bowl

The Belgium Melotte is the only single-bearing-bowl separator made. This patented bowl hangs from one frictionless ball bearing and spins like a top. It is *self-balancing*. It is kims as perfectly after 15 years' use as when new. Positively can not ever get out of balance—can not vibrate and thus cause cross currents which waste cream by remixing with the milk. The 600 lb. Melotte turns as easily as the 300 lb. machine of other makes. Spins for 25 minutes unless brake is applied. No other separator has or needs a brake. The Melotte bowl has solved the problem of perfect skimming.



-NO MONEY DOWN-FREE TRIAL-SMALL MONTHLY PAYMENTS-DUTY FREE We will send an Imported Melotte Cream Separator direct to your farm on a 30 days' absolutely Free Trial-no deposits-no papers to sign-use it as if it were your own separator. Satisfy yourself that the porcelain bowl is as easy to clean as a china plate. Compare it-test it in every way. When you are convinced the Melotte skims cleaner, turns easier, washes quicker, has one-half less tinware to clean, lasts longer than all others, then pay \$7.50 as first payment and the balance in small monthly payments until the separator is paid for.

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After 30 days free trial, then send only the small sum of \$7.50 and the balance in small monthly payments. The Melotte pays for itself from your increased cream checks. You're not to send one cent until you've used this great Belgium Melotte and have made up your mind

It is the machine you want. Keep it for 30 days and use it just as if it were your own machine. Compare the Melotte separator with any othertest them side by side. Then send your milk to the creamery. Let *them* prove which separator skims the cleanest.

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Without cost to me or obligation in any way, please send me the Melotte catalog which tells the full story of this wonderful separator and M. Jules Melotte, its inventor. Also send me your revised price list showing 22% reductions.

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Don't buy any separator until you have investigated the Melotte Take advantage of the 30 day free trial which Mr. Melotte has now authorized us to offer. Test the Melotte against all other separators and satisfy yourself as hundreds of American farmers have done that it is the world's greatest separator. The only separator that requires a brake. It is so easy to turn that it spins twenty-five minutes after you stop cranking. And remember it is guaranteed for 15 years. Don't wait—be sure to mail coupon TODAY!

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