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# DETROIT, MICH., SATURDAY, AUGUST 26, 1922

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## CURRENT COMMENT

THE MICHIGAN FARMER SAYS Dry weather is a test good farming need not fear.

It sometimes pays to let folks know we are around but it is not necessary to stir up the dust to do it.

"Cleanliness is next to Godliness." It is also essential to goodness in dairy products.

Often a good growing of a crop is spoiled by a poor harvesting and marketing of it.

During these ninety-in-the-shade days let's not forget that inspiration to a point which will involve, in his and perspiration are both essential to the real enjoyment of life.

Someone has said that the shortest way to a man's pocket-book is through his stomach, which leads us to suggest that the shortest way to dairy profits is through the cows stomach.

The Railroad Situation A S we go to press gress in the settle-

While there is still a general feeling of optimism regarding the early settlement of the difficulty, there is a growing realization of the fact that viously impossible for deflation to be we may be confronted with a serious effected in one industry, as it has been breaking down of railroad transportation if not a complete tieup of transportation facilities before the conflict public sentiment will take care of chat is over. President Harding's message to congress, following the failure of its conclusions. The Michigan Farmer his efforts to effect a present settlement of the controversy by personal mediation, is not particularly reassur- manner and to the best of its ability, ing, in that it is an appeal to public to the end that their judgment may sentiment rather than to congress, which he does not expect to undertake remedial legislation during the Michigan farmers in the present this cause, and the availability of coal and there's many womin folks what present session. This disposes of the emergency that they have such a at the mines will not relieve the situalikelihood of present government in- diversified production and such excel- tion unless it can be delivered to dis- shine off their nose than on their terference unless made absolutely lent home markets, which will reduce tant users. The federal fuel adminis- shoes.

It is entirely probable that this may be the wisest possible present course of action looking toward a definite settlement of the issues involved which, in the long run, is preferable to a temporary truce. This program promises that the public will be fully advised regarding the facts and principles involved in the controversy, thus facilitating an intelligent crystalthem which will be highly advanta-

geous if national legislation of a more the western fruit goes through definite the meantime Michigan farmers should situations at a time when a large deal. number of its members are in the midst of a campaign for re-election. This would not be in accord with the farms or in the shops. And it is absolutely essential that any legislasettlement of industrial conflicts arisfair to all concerned, including workmen, investors in the industries and public believes in just this kind of fact, and we believe that the knowledge that all the facts in the case are to be put up to the American public for discussion and decision as to a fair play program will hasten the likelihood of compromise on both sides and make for an earlier settlement of the present dispute than would any

other course. In another column of this issue under the title, "The Farmer and may sample what we grow. Strikes," will be found some facts and figures given by Secretary of Agriculture Wallace in a talk before the Farm Bureau at Leesburg, Va., last week, which every Michigan Farmer reader should carefully study, as having an important bearing on the situation. In addressing delegates and members of the Michigan Potato Growers' Exchange, at Cadillac last week, President David Friday, of M. A. C., who is an economist of international repute, declared emphatically that railroad rates must come down opinion, a reduction in railroad wages of approximately \$500,000,000 per annum.

It is perfectly natural for people of every class to resist any substantial reduction of their income, and perfectly right so long as such resistance does not react to the detriment of the country and all its people. Also, it is to the advantage of business in genthere is little evi- eral and farmers in particular to have dence of definite pro- industrial wages maintained at a point which will enable workmen to mainment of the railroad tain a high standard of living and shopmen's strike. maximum consumption of foodstuffs, but there is of necessity an economic balance which must be maintained between wages and prices and it is obin agriculture, and not ultimately in all others. In the end, fair American if it has the facts upon which to base will strive to acquaint its readers with the relevant facts in an impartial be fair and just.

railroad trouble may be.

in our fair state is Home Consumption

Perhaps the reason for this is that be met with a minimum of delay. In

For

or less drastic character is found to and well established channels of trade plan on a supplementary fuel supply be ultimately necessary to protect the which have been developed by a high- from woodlots as far as practicable as public interest in such controversies. ly organized marketing system. This a safety-first measure. In the absence of a preponderant ex- undoubtedly makes it easier and more pression of public sentiment along this convenient for distributers to get line, congress cannot be expected to western fruit than that grown nearly enact legislation which will wisely at their door. And it is with the disand adequately cope with this and like tributer that the retailers and hotels

However, Mr. John A. Doelle, state commissioner of agriculture, has done the value of thoroughness. a very good thing when he made a human nature, which is just as con- plea to the hotel keepers of this state stant a factor in congress as it is on for Michigan fruit on Michigan tables. quality Michigan grown Bing cherry, tion looking toward the permanent the tasty early sweet apples and the goodness of Yellow Transparents and ing in the operation of public utilities Red Astrachans, which are equal, if ing like dusting. or essential industries be absolutely not better, than those which could be obtained elsewhere. He thought it these sprays were evident, and as far was the duty of all of us to consume as one could see the results with one the general public. The American home products provided they were just as good and just as cheap as fair play. Railroad executives and others. And he offered to tell these railroad workmen are aware of this hotelkeepers where they could easily tion had much more to do with the reget dependable Michigan fruit of high quality.

And may we add that we, as Michiganders, can do no better to help advertise these great Michigan products than to make it easy for Michigan shape. hotelkeepers and retailers to get our fruit. Some concerted effort ought to be made to place Michigan products on Michigan tables so that our visitors

T is now apparent that there may be The Farm some delay in secur-Fuel ing needed coal to fin-Situation ish the threshing and do the big job of silo filling which is just ahead in this state. State Fuel Administrator Potter advises that in pursuance of the plan outlined in our last issue he took with him to Washington several orders for threshing coal made out on the federal forms and accompanied by proper bank guaranty for payment. When these were presented to Federal Fuel Administrator Spencer he returned them with the statement that, "The grain will not spoil in the stack." Mr. Potter states, however, that the state fuel administration is sult of endeavor, but perspirin' is the continuing its efforts to obtain this coal as promptly as possible and that Washington has assured them that their request will be considered and that some action will be taken shortly. He adds that it may be two or three weeks before coal can be obtained for this purpose. This delay is most regretable in view of the desirability of completing the grain threshing before fall rains cause heavy losses, and of the early need of coal for silo filling the assistunce of which is still more essential, but our readers may be assured that everything possible will be done from this Now I know the difference between end of the line to satisfy this essential

With a partial settlement of the coal strike accomplished it would seem that the general farm fuel situation would be brighter, but the situation is still complicated by the con- do 'cause most folks try so hard not tinuation of the railroad shopmen's to do it. There's lots of folks what strike and the gradual breaking lown use stuff to keep them from perspirin' It is a matter for congratulation to of railway transportation service from so they don't get their clothes soiled, necessary by an extreme emergency, their possible loss to a minimum tration is confronted with the neceswhatever the outcome of the present sity of facilitating the rapid movement somethin' about earnin' your bread by that there is plenty of lutely minimum needs to be supplied Michigan fruit in the for the present. It is to be hoped, like losses on his income tax blank. orchards, but when we however, that when the fuel adminisenter the cities we find western fruit tration machinery is once gotten into sweatin' about, and I said "Sweat." ization of public sentiment regarding on our fruit stands and in our hotels. good working order these needs may She didn't know I was writin' this.

need.

THE recent tour of The Value fruit men in the western part of the of Thorstate impressed many oughness valuable lessons, but chief among them was

Very often when several fruit men get together the value of this or that spray material is the topic of discus-His letter to them told of the high sion. Some favor lime sulphur as a summer fungicide, while others have discarded it in favor of Bordeaux mixture. Still others think there is noth-

On this tour the results of all of were as good as with the other. But there were object lessons which clearly denoted that the method of applicasults than the material applied. Where the application was careless the results were unsatisfactory, but where thorough work was done, the fruit was clean and in good marketable

If the fruit growers who were on this trip observed this demonstration of thoroughness and will impress it upon their fellow fruit men the tour will have been worth while alone for the lesson of thoroughness it impressed.

# Sweatin' vs. Perspirin'

SEEIN' as I have got considerable experience lately with sweatin', I think I kin spare a few drops of sweat writin' on the subject.

Sweatin' is a grand and glorious thing 'cause its the best way of keepin' cool when you're hot. If Nature wasn't wise and didn't lubricate us with sweat we'd burn up when we got hot and 'maybe we'd have to get our engine "pulled" in the hospital, which is the human garage, and have all our cylinders reground.

Now, sweatin' and perspirin' is two different things. Sweatin' is the reresult of in-



dolence. Perspirin' is what those do what's got no other occupashun than tryin' to keep cool.

We farmers sweat, but most city folks perspire while they's got

electric fans and iced lemonade and other intoxicatin' drinks, in their endeavor to keep cool. sweatin' and perspirin' 'cause I sweat on week days but I perspire on Sundays when I listen to Squire Jones' declamashuns on such a cool subject as "The Value of Immershun."

Now, perspirin' is a hard thing to

Seems like some famous man said of coal to the northwest before the the sweat of your brow. We farmers close of lake navigation to obviate are livin' up to his qualificashuns, ain't A FACT most notice- otherwise unavoidable suffering in that we? And we're proud of it, only we able to a traveller section during the coming winter, don't like to likewise earn the livin' hence we can expect only our abso- for the fellow what is perspirin' over tryin' to make his big dividends look Sophie just asked me what I was

HY SYCKLE.

# The Control of Wheat Stinking Smut Copper Dusts Have Proven Valuable in Checking this Serious Trouble

R ACH year stinking smut or bunt of wheat causes enormous damage. On an average the loss to the crop. Stinking smut causes loss in many ways. It lessens the crop and spoils its quality. When it is present about half the market price. Few elevators or manufacturing places are equipped with devices to clean such next. smutty wheat, so that the crop is only salable for chicken feed. When smutted grain is mixed in with a carload of otherwise clean wheat, the bad spoils the grade of the good-and the whole carload suffers. The federal grades sharply discriminate against the smutty product.

handles many cars of Michigan wheat, speaking before Michigan farmers, stated that control of stinking smut was the most important thing to establish Michigan's position in producing wheat, and he gave instance after instance to show how all Michigan wheat suffers because of the presence here and there of smut in our ship- ing up the old fanning mill and pre-

# By G. H. Coons, Plant Pathologist, M. A. C.

at threshing time, liberally coats the sprouts are three-quarters of an inch-with late plantings. With spring wheat kernels. The spores lodge in long. This period and this only is the wheat the later plantings usually meet the farmer gets for a bushel of wheat the groove, and on the germ of the danger time for the wheat. Every wheat, and thus fairly clean seed one farmer has noticed that some years are year-may become badly smutted the worse smut years than others. A bad mystery about the matter. Outside the

smut year for winter wheat is one When wheat is planted the smut when the fall is cold and wet and the gets in as the grain sprouts. This grain sprouts slowly. This gives the smut can only enter the tender sprout smut splendid opportunity to get in.

Time of planting is important. Very late planted wheat meets bad grow-Michigan farmers amounts to 5% of reproducing the smut. A trace of as it pushes out from the grain. The ever, is good growing weather for smut one year, distributed in the dust bulk of the infection occurs before the smut. Hence smut is usually worse faster growing periods hence the reverse condition holds. There is no grain there is a parasite growing when the grain sprouts and developing as the grain grows. If it can grow to or be washed to the tender sprout it enters and the stalk becomes diseased. The subsequent story of the smut is

interesting. Once inside the grain the

smut grows as the grain grows, keep-

ing pace with the progress of the developing shoot. The miscroscope re-

find a head, half smutted and half

presence until the wheat heads and

grain begins to form, and then the hid-

den enemy takes possession of the

kernel and makes smut powder instead

of grain. This powder distributed by

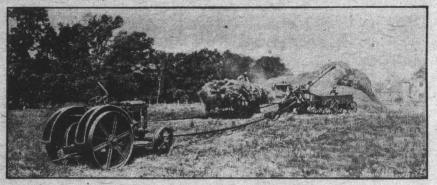
the thresher is ready again to infect

The smut gives no evidence of its

# A prominent grain buyer, who A "Home" Farm Crop Show

71TH larger offerings and a more ment in Michigan. These growers of terest of Michigan farmers in the Farm Crops Division of the Michigan State Michigan where its adaptability and Fair is on the up grade and going productivity are known. They recogstronger every day.

All over the state farmers are tun-



Many Smut Balls Break at Threshing Time

ments. Stinking smut is a serious dis- paring to "tell the world" where the many threshermen refuse to handle a tables had better look to their laurels. crop that is so infested. Taking it As one farmer put it, "Michigan's all in all, stinking smut annually costs practical growers have gone down to the state of Michigan from one to two Chicago for three years and haven't million dollars-a sum larger than is had to take a back seat for anyone. used to run the Michigan Agricultural We've neglected, however, to show our College.

### What Is Stinking Smut?

The sooty grain of stinking smut with its vile, fishy odor is well known and dreaded on every Michigan farm. Stinking smut is a fungous disease. In the field, when the grain is in the milk stage, the smutted stalks can be detected by their peculiar gray-green color and by the slightly greater spread of the spikelets. But the sure test is to shell out the grain which, a little bit of everything so he could when stinking smut has taken possession, consists only of the swollen distorted hull. This puffy grain instead of being filled with starchy "milk" as in the normal kernel, is filled with a black smut powder. This black mass consists of the fungous spores.

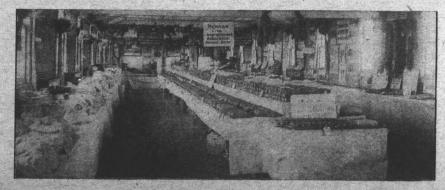
### The Cause of the Disease

Since control of stinking smut depends upon our knowledge of the life that the farmer understand this life furthering the pedigreed seed movestory perfectly. The pully grain of stinking smut dries as the grain matures and becomes a light smut ball, filled with spores. The light walls of many of these balls are easily broken in threshing and the wheat becomes dusted with the smut powder. Some of the smut balls do not break until the grain is drilled and as will be seen this is the most dangerous time of all.

A smut ball under the microscope is seen to teem with smut spores. A single smut ball has been estimated to contain 500,000 spores, each one carable under the right conditions of

ease in another way. It makes thresh- real quality crops are grown, and ing a very disagreeable process and some of the old-timers at the exhibit wares to the homefolks. Now that we've convinced ourselves that we can grow the real stuff we are going to let the rest of the state in on it. Besides, this winning stuff kind o' gets one's dander up and some of those silver-bronze trophies offered down at Detroit would look just as well on my clock shelf as they would lined up for some fellow whose main claim to agriculture has been that he grew just enter in every class in the book and get away with it."

It is a fact to be reckoned with that Michigan's winners at the bigger show have nearly all been by the pure farmer type of exhibitor, the fellow that actually was growing quantities of the seed and used the show as an advertising side line rather than a source of revenue. Much of this has been due to the work of the Michigan Michigan Crop Improvement Associa- germination. history of the fungus it is necessary Crop Improvement Association in tion, East Lansing, Michigan.



A Typical Michigan Farm Crop Exhibit

veals the threads of the fungus, in representative premium list in- pedigreed seed find the biggest the affected stalks, but outwardly market for their product right here in there is no visible sign. When the wheat stools, the smut grows out into the new shoots so that usually all heads produced from one smutted nize in a properly conducted show at the State Fair an excellent opportungrain are smutted. The exception comes when by some rare condition ity to display this seed to thousands of Michigan farmers and already numthe wheat in its growth outstrips the parasite and accordingly we somebers of them are getting their seed in shape to make a real showing. times find wheat with a stalk or two clean and the rest smutted or we may

Besides the competitive grain and seed entries a feature of the crops show at the State Fair this year will be the competition between counties showing both a wall and table display of their farm products. These exhibits are by county-wide organizations such as the Grange, Farmers' Clubs, or County Farm Bureau, and space is available for 18 of them to get into the running. Last year Ingham came out ahead but Tuscola, Hillsdale, Saginaw and others made her travel some. This year they are at it again each vowing to outdo the other, and the competition should be a worthy one.

growers in preparation of their en-

next years' crop and repeat the story over and over to the disadvantage of the farmer. The Control of Stinking Smut Since stinking smut is carried to the field in the grain, and gets in only in To stimulate good exhibits and aid the short period when grain sprouts are merging, a method which will kill tries, the Farm Crops Department of the smut on the grain without injury

sound.



What Per Cent of Smut Do You Harvest With Your Wheat?

the Michigan Agricultural College has to germination of the grain will preprepared a circular containing timely good and bad in a seed sample. These along with Extension Bulletin No. 22 on "Effective Crops Exhibits" may be

H. C. RATHER

vent smut. In the early days the suggestions on cleaning the different farmers washed the grain and got fair grains and information as to what is control. Some used brine and reduced smut slightly. Then pickling grain in copper sulphate or bluestone solution was introduced with good success in secured from the Secretary of the smut control, but with bad effects on

> Finally formaldehyde was discoverto have value for treating grain and farmers were advised to soak wheat in weak formaldehyde solution made with one pint of formaldehyde in forty gallons of water, skimming off the smut balls which rise to the top. This gives perfect control, even when the smuttiest of wheat is treated. If the treated grain is dried and planted at once it gives along with this perfect control of smut little injury to germination.

> This treatment has its drawbacks. The grain when soaked is hard to plant, and is troublesome to dry. If it (Continued on page 212)

# Potato Men Hold Annual Meeting Past Season's Business and Plans for the Future Discussed

change, held at Cadillac, Mich., on Aug. 16-17, brought together some 300 delegates, managers and members of the local exchanges throughout northern and western Michigan. The first and entertainment.

C. L. Brody, manager of the Michigan State Farm Bureau, was the first speaker at the opening session. He stated that the commodity exchange was essentially a sectional proposition. and in the belief that the members of the potato exchange would find the state-wide viewpoint of interest, he outlined the past year's program of the Michigan State Farm Bureau in the affiliation of commodity exchanges with that central organization. He reported satisfactory progress in the affiliation of four commodity exchanges with the Farm Bureau, including the potato exchange, the elevator exchange, the livestock exchange and the milk producers' association. He outlined the present plan of organization of the State Farm Bureau, which is controlled by seven directors elected at large from the county farm bureau units and one director selected by each of the affiliated commodity exchanges. He regards strong local control of commodity exchanges an essential requirement in the building of a sound organization from the ground selling or service organization which hopper, but application to the top sur- about 165 per cent of pre-war prices. up and outlined the work of the past might serve fruit and vegetable grow- face will be fairly efficient in the con- There must be a leveling of these year in putting a strong foundation ers' co-operative organizations through- trol of blight, even the sprinkling of prices and the economic question inunder the state organization and in out the country on an economic basis the surface with a broom or wisp of putting its house in order by substan- by the establishment of a national hay as an emergency method. Mr. vance to a higher level, or commodity tial reductions in expenses, the cen- service with representatives in leading Weston also spoke of the importance prices fall to meet agricultural prices. tralization of accounting, needed markets throughout the country. As of proper ventilation of potato ware- He believes the latter will occur, for

Michigan Potato Growers' -Ex- lie in organization and co-operation to ganization of the North American plan advocated will be further noted be promoted and perfected by finding Fruit Exchange on Jan. 1, 1923. It is in future issues of the Michigan the right men to direct them along lines of service to the membership 30,000 cars is required to maintain rather than profit to the organization. day's program was one of education Growers' Exchange spoke forcefully erated Fruit Growers' organization to await his arrival. At this session of the necessity of analyzing character in the selection of men to manage co-operative enterprises and congratulated the Farm Bureau on its selection of a manager.

Hale Tenant, of M. A. C., who did the initial work which resulted in the organization of the Potato Growers' Exchange, emphasized organization as the substantial basis upon which the farmer must rely to protect himself and to realize the earnings to which he and his family are entitled. He pointed to the organization of the elevator exchange as a substantial achievement and noted as an important co-operative development plan for the early establishments of live stock commission houses in the Detroit and Buffalo markets under the auspices of the Live Stock Exchange. He then outlined the plan of organization of the national service organization now known as the Federated "housecleaning," etc. He regards the a basis for such a service plans have houses for keeping the tubers in good

THE fourth annual meeting of the answer to the farmers' problems to been completed to take over the or- condition with minimum loss. The estimated that a volume of 25,000 to Farmer. such a national service on an economic late in arriving owing to a delayed President Curtis of the Potato basis. It is hoped to start the Fed- train, and an adjournment was taken with a volume of 50,000 cars in sight, he spoke of his program to make the including the product of the north- Agricultural College of greater service western apple growers, peach grow- to the farmers of the state, through ers, raisin growers, walnut growers, the extension of practical aid in the potato growers, etc. The plan contem- selection of poultry, dairy cows and plates a grower controlled organiza- seed for more economical production tion, with local sales managers who in the growing of more alfalfa, etc. will use the machinery of the national This program contemplates the adservice organization, which plan it is dition of \$50,000,000 per year to the believed will prove both economically net income of the farmers of the state successful and satisfactory to the within the next four or five years commodity organizations using it, since it will be conducted on a scale through the co-operation of the farmwhich will make it possible to secure ers individually and through their the services of the very best men in group organizations. the trade.

J. W. Weston, potato specialist at M. A. C., discussed potato growers' problems, especially the prevalence of leaf hoppers which cause tip burn and manager of the exchange at Levering, the threatened loss from late blight sounded a note of optimism as toastwhich has been reported in some sections of Michigan and other potato that co-operation has succeeded. states. Spraying with home-made bor-Fruit Growers, which has resulted deaux mixture will control these pests. on the "Future of Prices." He stated from the work of the committee of The spray must be applied to the un- that present agricultural prices are twenty-one appointed some two years der sides of the leaves with a high ago to work out plans for a national pressure sprayer to control the leaf while other commodity prices average

President Friday, of M. A. C., was which can easily be made possible

### The Annual Banquiet

On Wednesday evening the delegates and members were banqueted at the Elk's Temple. J. D. Robinson, master of the occasion, and asserted

President Friday, of M. A. C., spoke about 135 per cent of pre-war prices, volved is whether farm prices will ad-

(Continued on page 215)

# LATE AGRICULTURAL NEWS

CONSERVING COAL AT M. A. C.

diminishing supply of coal on A hand at the college has led President Friday of M. A. C. to issue orders restricting the burning of electric lights and the promiscuous running of drinking fountains and faucets. The library will be open only between the hours of 8 and 4 each day. Night work throughout the college is to be discontinued except in the barns, dairy building and such departments as are engaged in experiments that cannot be discontinued .--- H.

### FARMERS PURCHASE ELEVATOR.

NCREASED business of the Charlevoix Farmers' Co-operative Association obliged the members to acquire additional equipment. This was provided through the purchase of an old line elevator and right of way facilities on the Pere Marquette at a cost of eight thousand dollars.

### VOTES TO PLACE POTASH ON FREE LIST.

B Y a vote of 66 to 1 the Senate eliminated from the House bill the graduated duties on potash for a period of five years, leaving potash on the free list, and the \$9,500,000 bounty upon potash produced in this country was rejected. White arsenic was restored to the free list.

GRAPE ROT PUTS IN APPEARANCE prominent place.

Fruit growers are busy spraying in an fore. Besides the Michigan State from the standpoint of timely rains effort to prevent the spread of the Fair, this group will be shown at the and a very large percentage of the disease. Many are going through their Ohio State Fair, the Jackson County new acreage will stick. It can also vineyards and picking off rotted fruit, Fair, the West Michigan State Fair at be expected that a marked increase hoping in this way to stay the spread Grand Rapids and the International will be made during July and August and to economize in time when har- Livestock Show at Chicago. The beef in the area seeded." vesting. This year's crop is a bumper cattle exhibit consists of the animals one.

#### COLLEGE FAIR EXHIBIT

SERVICE of the Michigan Agricultural College to farmers of the state will be presented in unusually complete form at the Michigan State Fair at Detroit early in September, through a general educational exhibit occupying 300 feet of space in the main Agricultural Building, an exhibit of 10 prize horses, two carloads of carefully chosen beef cattle and a special poultry exhibit.

The part to be played by the college at the fair is under the general direction of E. B. Hill, assistant to the dean of agriculture. Ideas to be stressed, according to Hill, will be the value of alfalfa, the use o and phosphoric acid as fertilizer, reforestation, barberry eradication, fertilization and spraying of fruit trees, and food and nutrition from the standpoint of home economics. Other exhibits will show the work of the farm mechanics, entomology, animal husbandry, poultry and dairy husbandry departments and the engineering division. Boys' and girls' club work will be given a

The horse exhibit includes several REPORTS are to the effect that of the animals that won high honors the vineyards of the Lawton district. several that have not been shown be- season has been unusually successful of the potato producers.

that will be sent to the International sold was handled by the seed departlater.

# INCREASE IN ALFALFA ACREAGE

M ORE than 275,000 additional acres of alfalfa are being planted in Michigan this year, according to estimates by Prof. J. F. Cox, head of the M. A. C. farm crops department, based on the amount of seed sold. This apparently unprecedented increase is the result of the special campaign carried on during the last 12 months by the crops department:

Farmers estimate that the value of land is increased from 20 to, 40, per it was found that the decrease in profalfa, says Prof. Cox. The addition tural conditions and to the prevalence of 250,000 acres of alfalfa will increase of several diseases. the value of land in the state by \$2,-500,000. An extra ton of hay per acre ties, according to Prof. Roy E. Marabove other hay crops, worth from shall of the M. A. C. horticultural decome.

more livestock, more economical feeding, and increased crop yields per acre following alfalfa can be expected. Cer- organizing the raspberry interests so tainly the extensive planting of alfalfa, sweet clover and clover is the logical plantings which are disease free and grape rot is present in some of at the state fair last year, as well as thing under Michigan conditions. The true to variety, much after the fashion

About one-fourth of the alfalfa seed ment of the Michigan State Farm Bureau. J. W. Nicholson, manager, reported the sale of 776,798 pounds of northern grown seed up to July 1. Of this, 248,798 pounds was Grimm alfalfa from Idaho or North Dakota.-H.

### TO HELP RASPBERRY INDUSTRY

S TEPS to bring the declining raspberry industry of Michigan back to its former high place will be taken by federal and state authorities following a survey made recently in Berrien and Van Buren counties, in which cent by the successful growing of al- duction is due to unsatisfactory cul-

Plans formulated by the authori-\$10 to \$15, which can be expected partment, call for: first, an increase from alfalfa, will add from \$2,500,000 in the number of inspectors and moreto \$3,500,000 to the annual farm in- rigid inspection by the state department of agriculture; second, acquaint-"The dividends from alfalfa are ing the raspberry growers with the cumulative," declares Prof. Cox. importance of better cultural and fer-"Hence further returns in the way of tilization practices and with the serious nature of the several diseases by means of field meetings; and third, they may be in a position to certify

A A A

# Successful Round-Up in U.P. President Friday Tells of M. A. C. Plans to Further Agricultural Progress.—By L. A. Chase

THE annual farmers' round-up held a five-year plan of development for lege Experiment Station at Chatham, dicted would, if carried out, increase August 11; was highly successful. the income of Michigan farmers by city people from Marquette attended. out all non-laying hens, and keeping The weather was ideal and everybody only the best layers, an enormous inhad a good time. There was a pro- crease in the egg production of the gram of sports, including a tug-of-war, state could be effected, and he hoped, demonstrations; while the grand finale experts from the college, which would from the station buildings, when the state. This would not be so dif-President David Friday, of the Michi- ficult, he said, since an expert at sight gan Agricultural College, at 4 p. m., can very quickly pick out the worthpressed the button which exploded less pullets. Since there are ten milsimultaneously charges of dynamite lion pullets in Michigan, this is a job under nearly 200 stumps, covering two acres of land, and sent them sky high with a deafening report. A considerable number of representatives of the Agricultural College came up to be present at the round-up.

President Friday, after a tour of inspection of the station, gave utterance to his views on the existing agricultural situation and stated his plans for the work of the college, particularly with reference to the Upper Peninsula Experiment Station. His speech was delivered from a platform in the grove close to the station buildings to a large and interested audience of farmers and townspeople. As this was his first appearance before an Upper Peninsula assemblage of farmers, President Friday let his hearers know at the outset, that he was himself from the race of dirt farmers, having been born some 46 years ago on a farm near Benton Harbor. He believed, he said, that the experience of his mother, left a widow on this farm

the land, if farmers used good judgment, as well as labor, in their agriculture. He said he considered the importance and that if farmers had the right things to sell a market would be found for them.

with that of the manufacturing industry.

average output of each factory get into debt. amounts to \$190,000 in value. There in Michigan. The average output per is too big a problem for the Agricultural College to attempt to reach every individual farmer, and the small output from each farm makes it imposon every farm. The new discoveries and new methods in agriculture must beef as suitable to this section. be got to the farmer by the state using mote the work of the Agricultural Colaverage of \$10 for each farm in the sufficiently attended to this subject. state.

that the Upper Peninsula Experiment the Chatham Experiment Station had Station could have all the funds that increased from 120 in 1908 to 789 acres were required to do its work efficiently in 1922, and stated that one hundred a statement which was warmly applauded. More land was to be cleared The buildings at the station are now at the station, he said, and alluded to worth \$50,000. Dean Shaw also gave the fact that when such a clearing assurances that the Experiment statook place recently, the oats raised on tion would receive ample financial the new ground the first year paid the support so that it can have the best entire cost of clearing it. He also an- experts at the service of the farmers nounced that the College will soon of the northern section of the state. distribute a special bulletin relating to It was important, he added, that the the Upper Peninsula.

President Friday stated that he had close touch with the farmers.

at the Michigan Agricultural Col- the work of the college which he pre-More than 2,000 farmers with a few \$50,000,000 a year. Thus, by culling speech-making, eats, contests and next year, to start a campaign with was staged in a field across the road eliminate every non-paying pullet in



President Friday of M. A. C.

in 1886, with a family of five young that is well worth putting over. It children, demonstrated that a living, is entirely possible to raise the averand a good living, could be made off age output of eggs per hen from six and one-half dozens (as at present) to ten dozens. In the same way, the average milk output should be inproblem of production still topmost in creased from 3,600 pounds per year to 6,000 pounds. It was not a question of increasing the total output so as to flood the market, but of eliminating With regard to the work of the high cost animals and reducing ex-Michigan Agricultural College, Presi- penses thereby. This was the way to dent Friday compared his problem get ahead, since he prophesied, agricultural prices will not advance. The world situation is such that low prices. There are 550,000 persons employed are sure to continue, he said. Presiin 8,300 factories in Michigan, and the dent Friday warned farmers not to

President Friday thought the farmare 360,000 farmers on 196,000 farms ers could more efficiently deal with the problem of marketing than the Michigan farm in 1919 was \$1,600. It state, but he stated that the Agricultural College would study city markets to learn how the farmers can meet their requirements. He thought the Upper Peninsula should raise a larger sible for the farmer to employ experts proportion, of its food requirements, and suggested the production of baby

Prof. O. E. Reed, who also spoke, every means that is available. To pro- pointed out the great possibilities of cheese production as seen in Wisconlege, he said, he is going to ask the sin, when there was a standardized legislature of 1923 for two million dol- product of recognized quality. He lars, which would amount to only an thought the Upper Peninsula had not

Dean R. S. Shaw, of the Agricultural He gave assurances to his hearers College, pointed out that the lands of acres are to be cleared this summer. station and its workers should get in

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### PROPERTY IN JOINT DEED

In Michigan, how is property, real and personal, settled where there is a joint deed when father or mother dies? There are children of age and minors.—A. S. W.

Property held by husband and wife by entirety all goes to the survivor and when the survivor dies descends to the heirs of the survivor or passes to his devisees as if it had never been held by entirety.-Rood.

#### RIGHT BY APPEAL

In Michigan, if there was reason to believe that the rulings and orders of a Judge of Probate for a county was unjust, what recourse and to what power can the person appeal for high-er consideration that believes that an unjustice has been done, willfully or unwillfully?—G. W. T.

The right of appeal from the decisions of the Probate Judge is purely statutory and exists only in the cases provided for by statute. In some cases there is no appeal. In others there is an appeal to the Circuit Court. -Rood.

### BUFFALO BUR

Enclosed in box you will find a weed, which I am anxious to find out what it is. It is the second that I have found. It looks as if it would be a pest.-H. K.

The plant is solanum rostratum, Buffalo Bur. It is very frequently present in chicken feed, since the latter often consists of the screenings from mills and elevators. The weed is an annual one, i. e.-lives but one season. It is native to Kansas, Nebraska, Colorado and adjacent portions of the Great' Plains. It was the original food plant of the Colorado potato beetle, more commonly known as the 'potato bug." When the closely related potato began to be cultivated in the region where the Buffalo Bur is native the beetles promptly began to attack the potato also and followed it back until in a few years they had reached the Atlantic Coast-Bessey.

#### LIABILITY ON NOTE

Am I obliged to pay a note given to me to a certain company? I foresaw later that it would fail, so I went to the bank and forbade the payment of it. When the note fell due I was not potified so I thought the metition of it. When the note fell due I was not notified so I thought the matter at an end. Recently I received a notice from an attorney that unless the note was paid in 15 days he would com-mence action against me. The company was declared bankrupt in Jan-uary, so how can they collect when they have nothing to give in return. Is it rot getting money by fraud?— W T B W. J. B.

The maker is liable on the note without any demand at maturity and if he fails to pay may be sued for it. The bankruptcy of the payee has nothing to do with the liability .- Rood.

### UNPRODUCTIVE SWAMP LAND

Would like advice m regard to a piece of swamp. It has always raised large crops until the last four or five years. About all it will grow now is sorrel and a small fuzzy grass and smart weed. I plowed it last summer smart weed. I plowed it last summer after cutting hay and kept it worked all fall. I plowed it again this spring and planted it to corn about the first of June, but the corn is not doing anything. What is the trouble?—E. E.

Swampy or marsh land is very apt to be deficient in lime, and, therefore, a short time. Many plants will not your land is acid, and if so, the only not all removed, which makes it danthing that can be done to benefit it is gerous to eat .-- Pettit.

to apply lime. Not less than one ton of ground limestone per acre should be used. The sooner this is applied the better. Lime should be applied on the surface of the soil and harrowed in, not plowed down.

Again, swampy or muck land is usually deficient in phosphoric acid, and many times in potash. The available supply of these two essential plant foods is soon depleted on this kind of land, when it is cropped. Here again the only remedy is to purchase these two mineral elements of plant food.

If you will lime the land and then when you plant a crop use two-hundred to five-hundred pounds of phosphate and potash fertilizer, I feel sure it will again become productive.

### INCOME TAX

I lived in Canada for some time. I left a year ago. While there I made out income tax returns for 1920, and was not charged for same until a short time ago. My husband died here a month ago and what money we had is all tied up here. Can the Canadian government force me to pay, or should I agree to pay?—Mrs. F. Y.

Presumably the Canadian Government will hold you according to the return made, ability to enforce payment being dependent upon the property within reach of the Canadian Government.-J. R. R.

### BIG RETURNS FROM A CHERRY ORCHARD IN ALPENA

GREAT deal has been written this A year about the great cherry crop of some of the 'northern counties of Michigan, and actual returns from individual orchards are now coming in to the astonishment of fruit growers in other parts of the state. As an illustration of this a report comes from Alpena county that Charles R. Henry, one of the few enthusiasts in fruit growing who are blazing the way for others, and who with his sons own a cherry orchard, picked and marketed more than 2,200 bushels of cherries from their 24-acre orchard. They received from \$4.50 to \$5 per 24-quart crate for the fruit.

A part of this orchard was planted 12 years ago, and the remainder seven years ago, and all is in bearing. The gross return for the year was nearly \$15,000. From 100 to 150 pickers are employed in the orchard during the picking season of four or five weeks, and the fruit is nearly all shipped to Detroit.

#### CABBAGE WORMS

Please give some advice for destroy-ing cabbage worms. We have tried ashes and this doubled the amount of worms.—C. J.

We advise the use of arsenate of lead mixed with hydrated lime at the rate of one part of the dry powdered poison to four or five of the lime. This to be dusted on before the cabbage begin to head out. After heads are well formed I would use hellebore in the same proportion and in the same manner. The advantage of the hellebore is that it loses its poisonous nature rather quickly and is therefore much safer to use on the cabbage.

If one were sure that all the outer leaves were to be removed in every case, as is not done when cabbage is becomes acid after being cropped for fed to stock, then I presume the arsenate of lead would be safe, but often grow in a thrifty manner in sour or times an accessive amount of the acid soil. From your letter I suspect poison is applied and the leaves are

### RADIO DEVELOPS RAPIDLY.

**T** HAT radio is more than a passing fad is shown by figures given by W. D. Terrell, chief of the radio division of the Department of Commerce. Permits for broadcasting now total 400, and applications are coming in at the rate of 70 a month. More than a million receiving sets are now in use in this country.

Mr. Terrell says the radio is increasing rapidly in the rural districts, and is having a noticeable effect in making the country home more attractive to the young people.

### AUTO HELPS IN DELIVERING MAIL ON RURAL ROUTES.

T HE Post Office department called attention to the efficiency of the automobile as a means of delivering mail on the rural routes. The volume of mail is increasing and the routes of the rural carriers are becoming so lengthened that it is difficult for the carrier to make his daily rounds by horse vehicle.

#### REFUTES CHARGES THAT DUTY WOULD HAMPER SALE OF WOOLENS.

N view of the controversy in the Senate as to the bearing the duty on raw wool would have on the price of clothing, Senator Willis, of Ohio, had printed in the record the statement of the Wool Marketing department of the American Farm Bureau Federation, in which it was shown that it requires 9.8 pounds of grease wool to manufacture cloth for an allwool suit of clothes, which at 20 cents, the average price received by growers for 20,000,000 pounds of 1921 pooled wools, would be \$1.96, the total amount received by the grower for wool required to manufacture a choice suit, providing only virgin wool is used; that the total value of the 1921 domes-tic clip amounts to only \$56,400,000, and the estimated value of the 1922 clip of 260,000,000 pounds at 33 cents after the tariff has been in effect for over one year, would only be \$85,800,-000, being a convincing denial of the claim that the wool tariff would be responsible for \$150,000,000 to \$361,-000,000 increase in clothing values when the total amount of money received by the wool growers for their clip is less than half of the estimated increase to the consumer by reason of the tariff, as set forth in the clothing manufacturers' propaganda.

### GOOD RETURNS.

HERE is one from Beulah. The four-acre Montmorency cherry orchards owned by Ward Reynolds produced twenty tons of cherries having a value of \$2,800. The orchard was inspected by T. A. Farrand, extension specialist and secretary of the Michigan Horticultural Society, and pronounced to be one of the finest crops he had inspected this year.

### ASKS AMERICA TO CANCEL WAR DEBT.

THE proposal of the British and French governments that the United States cancel the \$11,000,000,000 war debt the allies owe this country does not meet with favor in Washington. There will be no cancellation so long as the present administration is in control of our government policies. Senator Capper has pointed out that such cancellation would mean a gift of \$100 from every man, woman and child in America, and Senator Borah declares that "there is nothing to be gained by our cancelling this debt, or any part of it, if the gigantic military and armament programs in Europe are to continue."

Don't stop feeding either chicks or laying hens this summer. It is the worst mistake a poultryman can make, say specialists on the subject, and It never pays.



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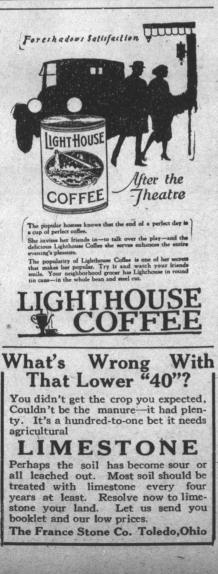
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# The Farmer and Strikes The Farmers' Wages Compared with Others By H. C. Wallace, Sec. of Agriculture

I N the course of a talk before the get to the consumer's table, a good Monday afternoon, Secretary of Agri- farmer receives. This margin between culture Wallace said:

in the organized industries with the eight years, but it is also fair to note wages received by the farmer, as rep- that a good deal of this increase has resented in the price he gets for the been due to the increase in the wages things he grows. The value of income, paid the people who handle these whether it be in the form of wages products. What these figures show is or of money received for sales of that the wages of the farmer, as repproducts, is represented not in dollars and cents but in what that income will buy by its purchasing power.

by the coal miner for mining a ton of coal. In 1913 this wage per ton would buy 1.1 bushels of corn in Iowa; than they were before the war, in 1921 it would buy 2.5 bushels of corn in Iowa. In 1913 the ton wage or in purchasing power. The purchaswould buy .7 of a bushel of wheat in ing power of the wages of the railway North Dakota; in 1921 .9 of a bushel. In 1913 it would buy 4.7 pounds of cotton in Texas; in 1921 8.5 pounds. In 1913 7 pounds of hog in Nebraska; in 1921 was 30 per cent greater than in 1921 14 pounds. In 1913 .8 of a in 1913. The purchasing power of the bushel of potatoes in New York; in farm hand who works for wages in 1921 1.2 bushel. In 1913 11 pounds of 1921 was 4 per cent less than 1913, sheep in Wyoming; in 1921 18 pounds. In 1913 1.6 bushel of oats in Illinois; farmer himself was, on an average, in 1921 3.1 bushels. In 1913 2.4 pounds from 25 to 45 per cent less than in of butter in Missouri; in 1921 3.2 1913. pounds.

"Taking the average yearly earnings of railroad employees, we find that in 1913 the yearly wage would buy 1,492 bushels of corn in Iowa, and in 1921 4,112 bushels. It would buy 1,028 bushels of wheat in North Dakota in 1913; in 1921 1,466 bushels. In 1913 it would buy 6,449 pounds of cotton in Texas; and in 1921 13,934 pounds. It would buy in 1913 102 hundredweight of hogs in Nebraska; and in 1921 237 hundredweight. It would buy 148 hundredweight of sheep in Wyoming in 1913; and in 1921 296 hundredweight. In 1913 it would buy 1,087 bushels of potatoes in New York; in 1921 1,916 bushels. In 1913 2,174 bushels of oats in Illinois; in 1921 He believes in fairness between man 5,109 bushels. In 1913 3,309 pounds of butter in Missouri; in 1921 5,285 pounds.

In 1913 the freight revenue per ton mile received by the railroads would troubles would soon be over. Prices buy 1.4 bushels of corn in Iowa; in 1921 this revenue per ton mile would mal relationships. There would be buy 3.1 bushels of corn in Iowa. In work for everybody and at just 1913 1 bushel of wheat in North Dakota; in 1921 1.1 bushel. In 1913 6.1 pounds of cotton in Texas; in 1921 10.5 pounds. In 1913 10 pounds of hogs in Nebraska; in 1921 18 pounds. In 1913\_1 bushel of potatoes in New York; in 1921 1.5 bushel. In 1913 14 pounds of sheep in Wyoming; in 1921 22 pounds. In 1913 2.1 bushels of oats in Illinois; in 1921 3.9 bushels. In 1913 3.1 pounds of butter in Missouri; in 1921 4 pounds.

In 1913 the price of a ton of coal f. o. b. the mine would buy 2.4 bushels of corn in Iowa; in 1921 6.2 bushels; without the interruptions of service in July 1922 9.3 bushels. It would buy in 1913 1.7 bushels of wheat in North Dakota; in 1921 2.2 bushels; in to produce food, for people must eat July 1922 4.4 bushels. In 1913 it would to live. He demands that both the buy 10.4 pounds of cotton in Texas; in owners of the coal mines and the coal 1921 21.1 pounds; in July 1922 22.9 miners recognize their equal obligapounds. In 1913 16 pounds of hogs in tion to produce coal, and he demands Nebraska; in 1921 36 pounds; in July that the management of the railroads 1922 53 pounds. In 1913 1.8 bushel of potatoes in New York; in 1921 2.9 also their equal obligation to keep bushels; in July 1922 4.7 bushels. In trains moving, for unless the food he 1913 24 pounds of sheep in Wyoming; in 1921 45 pounds; in July 1922 70 the people will starve. pounds. In 1913 3.5 bushels of oats in Illinois; in 1921 7.7 bushels; in July try are determined to prey upon one 1922 14.2 bushels. In 1913 5.4 pounds another and abandon law and order for of butter in Missouri; in 1921 8 strong arm methods, the farmer can pounds; in July 1922 16.1 pounds.

cotton; butter, or other farm products

Farm Bureau at Leesburg, Virginia, deal has been added to the price the the farmer and the consumer has con-"It is worth while to compare wages siderably increased during the past resented by the prices paid for his crops, are lower than his wages were before the war, measured in purchas-"Take the average wage received ing power, while the wages of the workman, and especially in organized industries, are considerably higher whether measured in dollars and cents employee in 1921 was 51 per cent greater than in 1913. The purchasing power of the wages of the coal miner while the purchasing power of the

In short, the farmers of the country, numbering almost one-third of our entire population, have borne altogether the heaviest burden of deflation. They have endeavored to get relief by all lawful means. They have appealed to the administration, to Congress and to every other agency which they thought might be able to help them, but while making these efforts to avoid their heavy losses they have not struck. They have not created disorders. They have kept on producing and in the face of extraordinarily low prices have this year grown one of the largest crops in our entire history. The farmer believes in law and order. He believes in government. and man. He believes in working hard and producing efficiently.

If other groups would do as the farmer has done, our economic would soon be adjusted to their norwages.

But there are too many people who seem to be thinking only of themselves and how they can profit at the expense of the community at large, and especially at the expense of the farmer. The farmer is sick and tired of this sort of business. He is disgusted with these recurring disputes between capital and labor especially as connected with the essential industries. He sees no reason why such disputes cannot and should not be settled in an orderly and lawful way and which cost him so dearly.

The farmer recognizes his obligation and the railroad workmen recognize produces is moved promptly to market

If the various groups in this countake care of himself. He can reduce In fairness it should be noted that his production to his own needs. He before the corn, wheat, hogs, sheep, can follow the example of some others

(Continued on page 211)

9-201

DRAWING

m ACTURE

HOTOGRAPHS



What did I say? Well, never mind. No use crying over spilled milk, so I am nursing the bruise made by that cow and trying to think of some-



thing to say that will bear publication. Think it better be about the wheat crop. We have always grown wheat in the rotation on Francisco Farm, not always with the best of success but with considerable satisfac-

tion in recent years.

Back in the fall of 1907 we had our faith shaken in the old standard variety of wheat that we had been growing by yields in the neighborhood much larger than ours. We obtained seed from one of the best of these fields and the following season harvested 34 bu. per acre, a yield nearly a third greater than we had ever produced before. This convinced us of the importance of securing seed of high yielding habit, and led to the making of a careful tabulation of past results. The following is a summary of the information secured for the years 1902 to 1907 inclusive:

Total number acres......108 Yield per acre.....16.8 bu. Cost per acre.....\$11.88 Value per acre at harvest time.. 13.38 

The natural deduction was that we had been giving away the fertility of our soil at the rate of \$1.55 per acre annually, or putting it another way that in order to make a profit on our labor and investment of \$162.00 over the six year period, we had withdrawn Rosenthal Corn Husker Co. the life of our soil to the extent of \$329.40.

In contrast to this six year average the one good crop had given us a net return of \$14.92 at a cost in fertility removed of \$7.22. We concluded that from then on it must be a good crop with us or none at all insofar as the things within our control could influence the crop. Two different winters since the severe weather has practically killed the crop and the land been replanted to oats. And two other years, this one included, the yield has been low due to seasonal conditions. The other years the yield has ranged from slightly under 30 bu to 38 bu. per acre. What are the chief causes for the good yields? Briefly these:

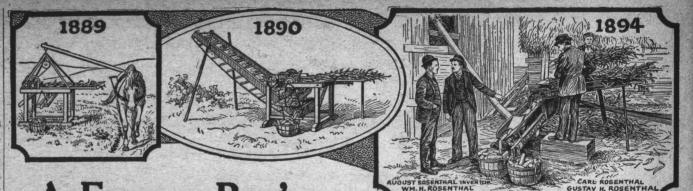
Early Plowing If we are plowing a stuble ground for wheat we like to do so at the earliest possible opportunity. Early plowing liberates plant food which is necessary for growing large crops of wheat, and the earlier it can be done the better the results.

Firm Seed Bed

The ground is then rolled and harrowed alternately until a fine, thoroughly fitted seed bed is prepared, so firm that the horses feet will not sink into the soil more than an inch or two while drilling. Where wheat follows beans we often start fitting the seed bed before the beans are removed from the field. Usually a couple harrowings with the spring tooth harrow is sufficient.

**Available Fertility** 

Wheat likes lots of readily available plant food. Barnyard manure is (Continued on page 202)



# **A Farmer Boy's** Dream Come True

T was 33 years ago-in 1889. For seven years, August Rosenthal had labored on a machine that would husk corn automatically. Plow-horse "Prince" was hitched to the pole, and in a shaky voice the young farmer boy inventor said "Giddap". "Prince" moved forward. It was the biggest moment in the life of the Rosenthal family of Reedsburg, Wisconsin. Biggest because the machine was successful-corn flowed into the hopper and came out cleanly husked.

The reason why this *pioneer* in the corn husker and shredder business is today the leader, is best told by the picture-story here. Farm-bred, every member of the Rosenthal organization has guarded against letting business gain interfere with giving the farmers the utmost in value. That is why Rosenthal Corn Huskers and Shredders are lighter running, do cleaner and faster work

Special 4 Rosenthal Corn Husker and Shredder. Easily handled by 10 to 15 H. P. A big money-maker with surprisingly high capacity

and are guaranteed for one year from date of purchase. Sold on Trial— You Take No Risk. Write at once for details of our proposition and name of nearest dealer. Completely illustrated 48-page catalog in colors describing complete line of four sizes of Corn Huskers and Shredders. 6 H. P. and up. Also three sizes of Ensilage Cutters. Useful souvenir FREE.

### **Do Your Own Shredding**

Most economical and satisfactory way of handling your corn crop. Supplies roughage which every farm-er realizes is now essential to a balanced dairy ration. Do custom work, too. Many Rosenthal owners pay for the cost of their machine in a single season out of the profits. Supplies a comfortable clear-profit income for years.

E. I. Bradford of Belding, Mich., Says: "I purchased one of your Special 4 Roll Husker and Shredders last fall and am more than pleased with it. It husks the corn clean and leaves the fodder in fine shape. The neighbors that saw it run thought it was a wonder, it done so much work and done it good-— E. I. BRADFORD, Belding, Mich.

1922

Boz 2, Milwaukee, Wis.

ACORN BRASS



and horse cuts Binder. Sold in ev Farmer when writing to advertisers

# RURAL HEALTH By Dr. C. H. Lerrigo

### STAY IN BED

subscriber, who is just getting back to health after a long illness, tells me that he has lost weeks and weeks of time because he hurried back to work too soon after an attack of "flu." He thinks people should be warned against this folly.

The moral is that you cannot hurry nature in her work of tissue building. When you have suffered a destructive illness, in which there has been waste of tissue, the part of wisdom is to rest quietly in bed until repair has been accomplished. You may manage to fool yourself into the idea that you are ready for work, long before the time has really occurred, and you may work up the "pep" that will send you back to your work, but do not think that there will be nothing to pay. It is not certain that you will be thrown back to your bed in a hurry, as was this man. But a worse thing may befall you. You may manage to keep on with your daily tasks, though performing them at a big disadvantage, and meantime, while you are congratulating yourself on how well you are defying nature, there is some organ of your body that is carrying a double burden and beginning to give way under it.

Quite frequently this overtaxed organ is the heart. A few months or perhaps years later some doctor tells you that you have a "heart murmur." You don't see how this can be, because you have always had such a strong heart; and it never enters your head that perhaps you did not treat your heart exactly fair when you placed all that extra load upon it in getting back to work so much too early. But that was the time when your heart began to go, and the fact that you thought that you were pulling the thing off so successfully at that time is now little consolation.

Parents should be especially careful of young children who have had measles, scarlet fever, diphtheria, influenza or typhoid fever, to make very sure that they have made a complete recovery before resuming their usual occupations. Under no conditions should they be allowed to jump right into the old strain, but it should always be insisted that play and work be taken up gradually. In a general way, the same rule applies to adults. Take time to get well, and resume your occupations gradually.

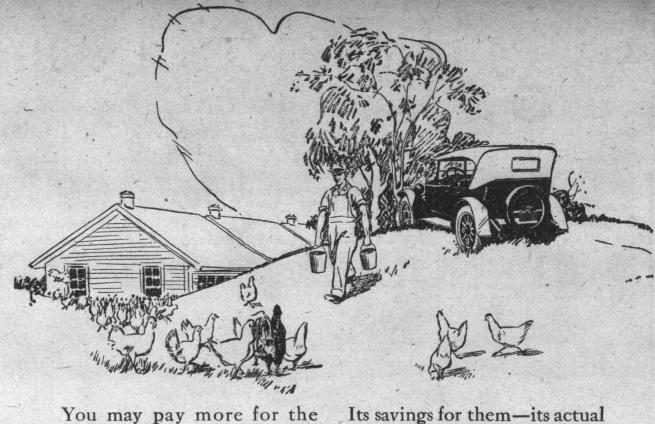
### FRANCISCO FARM NOTES

(Continued from page 201) good but we like it best on the new seeding or for the cultivated crops, so what we can spare for the wheat goes on the higher spots and is valued chiefly for winter protection. We use 200 lbs or more of a good complete commercial fertilizer. No doubt the greatest profit comes from the phosphorus, but we like a little nitrogen to give the crop a good kick off, and we are convinced that a little potash pays.

Good Seed Nothing but the best of seed from a variety that has been tried and proved is good enough. It must be thoroughly cleaned and graded, treated to kill the smut germs, and sown at the rate of two bushels per acre. Sept. 15th to 20th are the sowing dates in our territory. Observation of these practices has insured for us an annual yield practically double the average for the country.

Upon the permanence of American agriculture depends the permanence of America. Don't wear out the soil which has been intrusted to your care. THE MICHIGAN FARMER





You may pay more for the Hupmobile than for a lighter, smaller car-but you are money in pocket at the end of the year.

Farmers who buy the Hupmobile, after a period of motor car experience, find the Hupmobile is a better business proposition.

earnings-more than offset the larger outlay in the beginning.

Such an investment, when it can be made, is good business.

Simply because the Hupmobile is such an investment, its numbers on the farms of America are increasing year by year.

Big corporations employ fleets of Hupmobiles for their reliability and low costs The Hupmobile is manufactured by an old, well established company, known all over the world for the quality of its product Touring Car, \$1150; Roadster, \$1150; Roadster-Coupe, \$1335; Coupe, \$1635; Sedan, \$1785. Cord tires on all models. Prices F. O. B. Detroit-Revenue Tax extra

Hupp Motor Car Corporation, Detroit, Michigan





40 Acres, practically all cleared. Well fenced modern 8-room house. basement barn. 40260, with addition 30x40, basement under all, buildings valued at \$5000, good clay loam hand, part level, part roll-ing, 4 miles out of town, state award gravel road, short distance to school. Price \$4500, \$1500 down. Balance payable to suit yourself. Write W. F. UMPHREY, Evart, Mich.

FOR ALE, Farms and unimproved land \$12 to \$100 per acre. 5 to 2000 acre tracts in Central Mich, best of soil and locations, let me know your farm wants. J. H. STBANG. Lakeview, Mich.

For Sale, 120 acres of good loamy soil all under cultivation. Well drained, well fenced, large barns and silo, tool shed, large frame house, water in barn and house. For more particulars write Mrs. BRUCE WILSON, Marlette, Mich.

**C ne of** Michigan's best. A-1 soil. 200 acres 180 clear-d. House modern to minute. 66x80 barn. Silo. Elevator, feed mill, good location, Sacrifice \$25,000. Easy terms. Frank Cain, Grant, Mich. 40 ACRE truck farm, young team, 4 head cattle, poultry, tools and crops, 4 room house, 2 acres timber, fruit, \$3,000, part cash, B. S. MARTIN, R. 4, Leslie, Mich

### FARM HELP

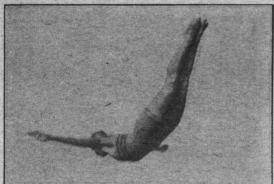
Wanted man to work an equipped 200 A.farm, under livestock share lease. Beef cattle, hogs, and sheep. STEEN FREEMAN, Wamsley, O. Wanted Experienced married dairyman with \$1000, to horses furnished. Write Box 53, Otter Lake, Mich.

Please Mention The Michigan Farmer When Writing to Advertisers

THE MICHIGAN FARMER

11-203





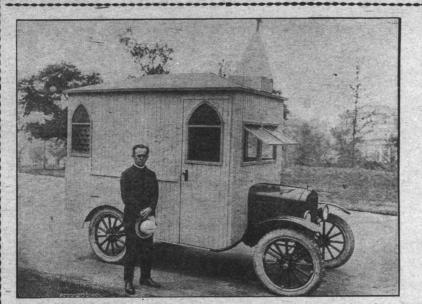
Ethelda Bleibtrey, amateur swimming champion, doing the swan dive at Lake Hopatcong, N. J.



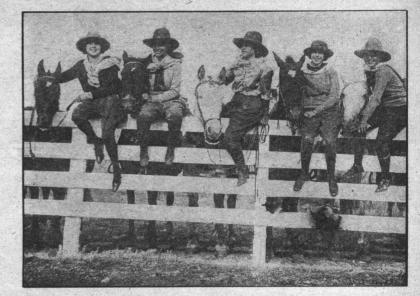
You know who this man, Judge Chas. E. Bull, of Reno, Nevada, looks like.



Sir Hall Cain confering with Richard Dix, film star, about the picturization of "The Christian."



Rev. Brandford Clark, poet, painter and preacher, is equipped to obey the scriptural injunction "Go ye into the highways." Mrs. Clark plays the organ in his traveling chapel.



Five queens of the saddle ready for the annual rodeo at Salinas, California. These girls are real rough riders and know how to take the "bumps" without complaint.



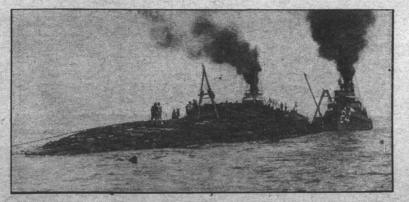
Carl Fromhagen, national aquaplane champion, doing one of his stunts. at Coronado Tent City, California.



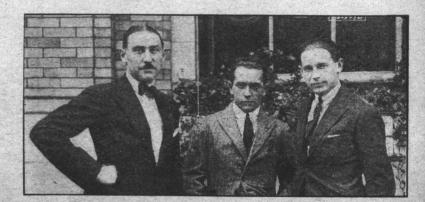


Chinese coolies in Shanghai hauling the largest consignment of bibles ever made in the history of the American bible society's work in China.

Miss Vivian Simpkins, bobbed haired Indian maiden, a member of wealthiest tribe in the world.



The world's largest raft, 900 feet long, containing 5,000,000 feet of logs, completes its thousand mile voyage by sea from Columbia River, Oregon, to San Diego, California.



The French tennis team arrives in New York for matches with the Australian team. The winners will play the American holders of the famous Davis cup.



Robert Fairchild had danced with you." "Please!" reached her and was holding forth his hand. She looked up in half surprise, then demurred.

"But I don't know these old dances." "Neither do I-or any other, for that matter," he confessed with sudden boldness. "But does that make any difference? Please!"

She glanced quickly toward the door. Maurice Rodaine was still talking, and Fairchild saw a little gleam come into her eyes-the gleam that shows when a woman decides to make some one pay for rudeness. Again he begged:

"Won't you-and then we'll forget. 1-I couldn't take my payment in money!"

She eyed him quickly and saw the smile on his lips. From the platform the caller voiced another entreaty:

"One more couple. Ain't there no lady an' gent that's going to fill out this here dance? One more coupleone more couple!"

Fairchild's hand was still extended. Again Anita Richmond glanced toward the door, chuckled to herself while Fairchild watched the dimples that the merriment caused, and then-Fairchild. forgot the fact that he was wearing hobnailed shoes and that his clothes were worn and old. He was going forward to take his place on the dance floor, and she was beside him!

Some way, as through a haze, he saw her. Some way he realized that now and then his hand touched hers, and that once, as they whirled about the room, in obedience to the monarch on the fiddler's rostrum, his arm was about her waist, and her head touching his shoulder. It made little difference whether the dance calls were obeyed after that. Fairchild was making up for all the years he had plodded, all the years in which he had known nothing but a slow, grubbing life, living them all again and rightly, in the few swift moments of a dance.

returned to the side of the hall. Out ly, her dark eyes ablaze, her pretty reasoning the past or the future, of the haze he heard words, and knew lips set and firm. She looked anxiousindistinctly that they were his own: ly about her, sighted Fairchild, and or what her plans might contain; his companion, as she nudged him.

tonight?" "Selfish!" she chided.

"But will you?"

For just a moment her eyes grew serious.

"Did you ever realize that we've never been introduced?"

Fairchild was finding more conversation than he ever believed possible.

"No-but I realize that I don't care -if you'll forgive it. I-believe that Anita smiled. I'm a gentleman."

"So do I-or I wouldn't have

"Then please-

"Pardon me." She had laid a hand ter of the floor. "I'll-" on his arm for just a moment, then hurried away. Fairchild saw that she was approaching young Rodaine, the reason. Jealousy! against him, but he did not move. He the next dance came, they went again

less you teach me." Fairchild plead- and stare in surprise. There had come ed, as they made their way to the cen-

"Don't work on my sympathies!"

"But it's the truth. I never will." "S'lute yo' podners!" The dance, scowling in the background. That was on. And while the music squealperson shot an angry remark at her as ed from the rostum, while the swaying sensing a staged surprise, followed the she approached and followed it with forms some way made the rounds ac- example. It was just the finishing streaming sentences. Fairchild knew cording to the caller's viewpoint of touch necessary,---the old-time hold-up Couples re- an old-time dance, Anita Richmond of the old-time dance. The "bandit" turning from the dance floor jostled evidently "thought about it." When strode forward.

# That Game of Quoits

By M. A. Cromlich

I hev seen them city fellers playin' golf out on the links, An' it looked like you could larn the game in four an' twenty winks; An' i've seen the gals in sweaters playin' tennis on the lawn, An' others playin' croquet till their slowness made you yawn. In fact, a game of baseball seems to me to be quite tame, When compared with one excitin' an' real good old-fashioned game, Played by Squire Riggsby an', perhaps, a dozen more— Yes, a game of quoits with horseshoes in the back of Peter's store!

When the first warm wind of springtime came a-sighin' through the grove.

An' it got too warm for checkers in the back of Peter's store, "Pegleg" Smith an' Grandpap Saunders hung their coats up in a

Banked the clay, an' druy the pegs home just as true as they cud be; Searched aroun' the whole blamed county for old horseshoes, rusty

red (Even stole ol' Peter's horseshoe that was hangin' overhead), Started playin' after dinner with Pap Spruceby keepin' score, In a game of quoits with horseshoes in the back of Peter's store!

Through the spring an' through the summer till the late fall came

aroun', An' the frost was on the pumkin an' the snow was on the groun', You could find the same old codgers pitchin horseshoes every day, Controversin' an' contestin' every game that they would play; Squire Cole would fume an' argue till his face was like a beet, An' his claims would get the other's feelin's up to fever heat, Till you'd think there'd be a riot, but 'twas fun an' nothin' more, In that game of quoits with horseshoes in the back of Peter's store! aroun',

The music ended, and laughing they came. Anita Richmond turned swift- denly realized he loved, without "Will-will you dance with me again then started toward him, while he ad- a man out of prison lives by impulse, vanced to meet her.

"I've reconsidered," was her brief announcement. one with you."

"And the next after that?" Again: "Selfish!"

But Fairchild did not appear to hear. next!" he urged as the caller issued his inevitable invitations for couples. "Maybe-I'll think about it."

"I'll never know how to dance, un-

of the quarrel-and in a moment it and the brown-eyed girl whom he sudwithout caring whom she might be and Fairchild was but lately released.

A third dance and a fourth, while "I'll dance the next in the intervals Fairchild's eyes sought out the sulky, sullen form of Maurice Rodaine, flattened against the wall, eyes evil, mouth a straight line, and the blackness of hate discoloring his "And the next and the next and the face. It was as so much wine to Fairchild; he felt himself really young for the first time in his life. And as the music started again, he once more the paper tomorrow," he announced. turned to his companion.

Only, however, to halt and whirl Back there!"

a shout from the doorway, booming, commanding:

"Ands up, everybody! And quick about it!"

Some one laughed and jabbed his hands into the air. Another, quickly

"Out from be'ind that bar! Drop was waiting-waiting for the outcome on the floor together, Robert Fairchild that gun!" he commanded of the white-aproned attendant. "Out from that roulette wheel. Everybody line Quick-and there ain't no time up! for foolin'."

Chattering and laughing, they obeyed, the sheriff, his star gleaming, standing out in front of them all, shivering in mock fright, his hands higher than any one's. The bandit, both revolvers leveled, stepped forward a foot or so, and again ordered speed. Fairchild, standing with his hands in the air, looked down toward Anita, standing beside him.

"Isn't it exciting," she exclaimed. "Just like a regular hold-up! I wonder who the bandit is. He certainly looks the part, doesn't he?"

And Fairchild agreed that he did. A bandanna handkerchief was wrapped about his head, concealing his hair and ears. A mask was over his eyes, supplemented by another bandanna, which, beginning at the bridge of his nose, flowed over his chin, cutting off all possible chance of recognition. Only a second more he waited, then with a wave of the guns, shouted his command:

"All right, everybody! I'm a decent fellow. Don't want much, but I want it quick! This 'ere's for the relief of widders and orphans. Make it sudden. Each one of you gents step out to the center of the room and leave five dollars. And step back when you've put it there. Ladies stay where you're at!"

Again a laugh. Fairchild turned to "There, it's your turn."

Out to the center of the floor went Fairchild, the rest of the victims laughing and chiding him. Back he came in mock fear, his hands in the air. On down the line went the contributing men. Then the bandit rushcd forward, gathered up the bills and gold pieces, shoved them in his pockets, and whirled toward the door. "The purpose of this 'ere will be in "And don't you follow me to find out!

### AL ACRES—Al Urges Percy to Wartify the Potatoes.



204 - 12

Two or three laughing men had | started forward, among them a fiddler, who had joined the line, and who now rushed out in flaunting bravery, brandishing his violin as though to brain the intruder. Again the command:

"Back there-get back!"

Then the crowd recoiled. Flashes had come from the masked man's guns, the popping of electric light globes above and the showering of glass testifying to the fact that they had contained something more than mere wadding. Somewhat dazed, the fiddler continued his rush, suddenly to crumple and fall, while men milled and women screamed. A door slammed, the lock clicked, and the crowdrushed for the windows. The hold-up had been real after all,-instead of a planned, joking affair. On the floor the fiddler lay gasping-and bleeding. And the bandit was gone.

All in a moment the dance hall seemed to have gone mad. Men were rushing about and shouting; panicstricken women clawed at one another and fought their way toward a freedom they could not gain. Windows crashed as forms hurtled against them; screams sounded. Hurriedly, as the crowd massed thicker, Fairchild raised the small form of Anita in his arms and carried her to a chair, far at one side.

"It's all right now," he said, calming her. "Everything's over-look, they're helping the fiddler to his feet. Maybe he's not badly hurt. Everything's all right-"

And then he straightened. A man had unlocked the door from the outside and had rushed into the dance hall, excited, shouting. It was Maurice Rodaine.

"I know who it was," he almost screamed. "I got a good look at him -jumped out of the window and al-most headed him off. He took off his mask outside-and I saw him."

"You saw him-?" A hundred voices shouted the question at once. "Yes." Then Maurice Rodaine nodded straight toward Robert Fairchild. "The light was good, and I got a straight look at him. He was that fellow's partner-a Cornishman they call Harry!"

(Continued next week)

THE FRIENDLESS MAN

THE man who doesn't make friends isn't worth his salt. Man is a social animal. He needs friends to talk to-and to listen to. They are the solace of his leisure hours. They are his confidants in his time of trouble. Without them he might as well be an outcast on a desert island.

Make all the friends you can. At best you will make but a few, for there will be but a few men who will take you at your own value, and have enough interests in cc mmon with you to be really your frie ds.

But never use friend ship as a means of advancement. Put business on a business basis.

Never make the mistake of depending on a friend in a business relationship. Often your friend can and will help you. But that sort of help is not the help you want.

Sooner or later, if you are going to get anywhere, you will discover that you must depend on yourself, and yourself alone.

Interest yourself in what friends are doing, and interest them in what you are doing. Spend your leisure with them. Enjoy their comradeship. But never depend on them. Friendship was not meant for a ladder by which to climb to higher places in the world. It is too sacred for that .-- M. Meredith.

Nothing great was ever accomplished without enthusiasm.-Emerson.

## THE MICHIGAN FARMER



# Is your gas power machinery wasting money that could be saved by installing them?

Every motor-whether it is your automobile, tractor, truck, engine or pump-has three vital units. They are the piston rings, pistons and pins. It's the condition of these three units which determines the motor's power and economy.

If they are worn, full power and economical operation in that motor are impossible.

Wear in these three units many times causes farmers to sacrifice a good car or tractor or engine, when, if they had renewed them, the machine would have given satisfaction for a long time more.

When you realize the load these three units

carry, it's easy to understand why they wear. They have to seal the combustion chamber, withstand the force of every explosion and the stopping and starting of the pistons as they shoot up and down their cylinders. It is not strange that they wear and when they do the motor gets noisy and wasteful. It frequently causes sacrifice of a good car or tractor that would have given much longer satisfactory service if these worn parts had been replaced. Send for our Free Booklet, "To Have and to Hold Power," which explains the whole subject of motor wear and its correction.

ADDRESS DEPT. AE. MCQUAY-NORRIS MANUFACTURING COMPANY, ST. LOUIS, U. S. A.

**Pistons** and Pins

Pistons and Pins McQuay-Norris Wainwright Pistons and Pins—gray iron pistons as light in weight as safety permits—specially de-signed for replacements— available in standard sizes and over-sizes—also in semi-fin-ished form 75 - thousandths over-size—pins of special hard-ened steel, ground to ex-ceptional accuracy.

THE MCWADE

SEALED TUBE

The McWade Tire & Rubber Co.,

Garrettsville, Ohio

AUTOMATICAL

\$125 <u>Each</u> Froor Perring an exclusive sign preventing loss of gas and compression. Gives equal pressure at all points on cylinder walls. For all pistom groours except top grooves except top, which should have Supercy. Each ring packed in a parchment container

3:

\$100 Supercyl-Keeps Per ring lubricating oil out of combus-tion chamber. Collects excess oil on each down stroke of piston and empties on each up stroke, which ordinary grooved rings cannot do. Each ring packed in a parchment con-tainer.

RINGS

3503

50c JHFFY- GRIP Par one - piece Per ring ring. Non-butting joint, which can be fitted closer than ordinary step cut - velyet finish --quick seating. "Seats in a jiffy." To keep from rust, each ring is packed in an individual glassine envelope.

Snap —of the highest Rings grade. Raised above the average by McCuay-Norris manufacturing methods. Their use insures all the satisfac-tion possible for you to get from a plain snap ring. They are packed twelve rings to the car-ton and rolled in waxed paper.

AQUAY-NOP

SNAP RINGS

31 1

13 - 205

**Michigan Farmer Pattern Service** trasting material % yard of 40 inch material will be required. The width of the skirt at the foot is 2% yards.

Price 12c. 4052—Ladies' Dress. Cut in 7 sizes: 36, 38, 40, 42, 44, 46 and 48 inches bust measure. A 38 inch size requires 5 yards of 40 inch material. The

width at the foot with plaits extended is a little more than two yards. Price

No. 3505.—Child's Short Clothes Set. Cut in four sizes; six months to one year, 2, 3 and 4 years. A one-year size will require 1% yards for the dress, 1% yards for the petticoat, and %-yard for the drawers, of 36-inch ma-terial. Price 12c.

No. 3503.—Boys' Suit. Cut in five sizes, 3, 4, 5, 6 and 7 years. A four-year size will require two yards of 44-inch material. Price 12c.



The Michigan Farmer,

3522

No. 3522—3509.—Ladies' Costume. Blouse 3522 cut in six sizes, 34, 36, 38, 40, 42 and 44 inches bust measure. Skirt 3509 cut in seven sizes, 24, 26, 28, 30, 32, 34 and 36 inches waist measure. To make this model for a medium size, will require 6% yards of 44 inch material. The width of the skirt at the foot is 2% yards, with plaits ex-tended. Two separate patterns 12c for each pattern.

3509

4053—Misses' Dress. Cut in 3 sizes: 16, 18 and 20 years. An 18 year size 16 frequires 5% yards of 32 inch material. skirt at the foot is about 1% yards. If collars and puffs are made of con-Price 12c. Send all out Send all orders to



Our Boys' and Girls' Department

# Washtenaw Young Folks Enjoy Camp Only Farm Bureau Boys and Girls Camp in Michigan Again Proves Successful

THE boys and girls interested in club work of Washtenaw County, were well represented at their camp, held from July 31 to August 12, at Silver Lake, in the northern part of the county about 18 miles from Ann Arbor. Some 50 boys took possession of the camp the first week and approximately the same number of girls arrived to enjoy the second week.

Splendid programs were arranged, and special instruction during forenoon and afternoon periods was rendered in such a way as to be thoroughly enjoyed by all.

The boys were instructed in rope tying and nature study by E. J. Mel-



Who Is Afraid of Snakes, Anyhow?

len, Boy Scout Executive, assisted by Harold Lepard, Scout Leader, both of Ann Arbor. R. A. Turner, State Boy and Girl Club Leader, assisted by Nevels Pearson, made the boys forget they ever had to hoe beans when he taught them some new games, songs and a few pointers in handicraft. Prof. H. H. Bartlett, Dept. of Botany, University of Michigan, told the boys something about field identification of plants and trees and H. S. Osler, County Agricultural Agent, gave them some practical hints in rope splicing and grain judging.

Athletic activities consisted of base-Athletic activities consisted of base-ball, basket ball, volley ball, quoits and some noted speakers. They were also ball, basket ball, volley ball, quoits and some noted speakers. They were also You are forutnate to live in such Don't forget to write us about it. Write week. Athletic champions from the the parents. different clubs defended their laurels against all members.

tion in sewing, basketry and enamel- tending. The anticipation of this aning. This instruction was under the nual good time puts zest into the sealeadership of Miss Vasold, Assistant son's farm work. Brothers and sis-State Club Leader, assisted by Miss ters of club members below club age Sharpe, M. A. C. Senior, and the local look forward to the time when they club leaders (some of them school- can go to camp. It brings together ma'ms). Prof. Hankinson, Ypsilanti boys and girls who are energetic and Normal, gave the girls some informa- ambitious and ready to make the most tion on field study and identification out of every opportunity. of birds. A special feature of each in- Club work was organized in Wash- town. struction period was a demonstration tenaw County four years ago. The

By Mrs. Ila Leonard



The Washtenaw Girls Said "Come On In, the Water's Fine!"

by a Red Cross nurse who also at- ty banks, each bank subscribing its did opportunity for wood-craft, nature study, hiking and photography, some of which appear on this page.

Eats, the all-important feature of camp life, was ably supervised by Mrs. Biederman. Many could go home and tell what the little boy of the second grade told his teacher. He was asked to construct a sentence containing "gruesome." After giving it a few minutes of serious consideration, he replies, "Harold went to the Farm Dear Uncle Frank: I have never written to you before Bureau camp at Silver Lake and when he came home mother said he had grew some." With the good eats coupled with hearty appetites all seemed to add to their avoirdunois. We live on an 80-acre farm. seemed to add to their avoirdupois.

of each day was the evening programs consisting of camp fire stunts and talks by the members, moving pictures and short Camp Fire talks by

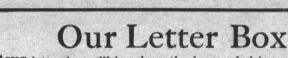
in first aid and care of the sick, given first year it was financed by the coun-

tended skillfully to the aches and pro rata share according to its bank- ment making have accomplished much pains of the entire camp. The lake ing resources. It became so strongly in the way of instructing future farmand surrounding country offered splen- backed by parents of club members

that it very soon came under the direction of the Farm Bureau. With the co-operation of rural schools, county school commissioners and teachers as local leaders, it has been possible to organize clubs in all parts of the county.

Last year Washtenaw County boasted 27 clubs with a total of 271 members. With the advent of spring, Mr. Watt was chosen as County Club Leader and his splendid efforts and untiring energy for four months has brought the grand total up to 67 clubs with 540 members enrolled.

Projects emphasing poultry, pigs, calves, corn, canning, gardens and garers and farmerettes.



T HIS letter box will be where the boys and girls can express their I views, tell of themselves and things about the farm, or ask advice. The most interesting letters each week will appear here. Address your letters to me.—Uncle Frank. advice.

so I thought I would write you a little letter.

eemed to add to their avoirdupois. One of the most interesting features f each day was the evening programs onsisting of camp fire stunts and alks by the members, moving pic-tres and short Camp Fire talks by

and music. When I grow up I wish to be a cartoonist and a music teacher. I wish some of the boys and girls my age would write me, as I would enjoy very much to hear from boys or girls from different parts of the state. My folks are going to auto to Bel-ray, Florida, this fall. We are going to Grand Rapids first to visit relatives, to Grand Rapids first to visit relatives, and from there across to Washington, D. C., and from there on down the Atlantic coast line road to Belray. I think it will be a nice trip, don't you? think it will be a nice trip, don't you Sincerely, Gay Vance, Turner, Mich.



The Boys Learned to Splice Rope and Make Halters While the Girls Did Enameling, Sewing and Basketry

Camp week seems to come as a climax of the year's club work and is The girls received special instruc- much looked forward to by all at- Dear Uncle Frank:

ideal country conditions. Write me again when you can, Gay. some more of these little letters.

I have read so many boys and girls letters in the Michigan Farmer, that I thought I would try my luck and

write also. I am a girl, 13 years of age. I have black bobbed hair, dark brown eyes, quite a dark complexion, and am 60 inches tall. I am small for my age. I live on a farm of 40 acres. We I live on a farm of 40 acres. We have quite a few chickens, two horses, some pigs and three large ducks.

I have a grandmother and aunt in own. I go to visit often. I have talent in drawing, painting



Flag Raising and Forty-five Beauties Who Attended Farm Bureau Camp at Silver Lake

### Dear Uncle Frank:

I enjoy reading the letters in the Michigan Farmer very much and would like to be a cousin to the many boys and girls who write to you. I live on a farm of 160 acres of which 60 acres are woods. The little creek which crosses it makes it very pretty.

I have a brother, Laurence, with years old and a Junior in the Owosso high school. I like all active games very much. I have another Uncle Frank besides you.

We have kittens, cats, calves, a pig and a lamb for pets. I like the farm and enjoy it very much. I hope this letter is not too

long. Am sending a composition on the work I like the best and why. Your nicce, Dorothy Girdwood, Henderson, Mich.

It is fine you have such good times with your brother, so often brothers and sisters are not chummy. Say "Hello" to your other Uncle Frank for me.

AUG. 26, 1922

# **Snap-Shot Contest**

RECEIVED many interesting rural scenes in our snap shot contest, which indicated that the boys and girls know how to take pictures. However, many interesting pictures could not be considered in the final selection as they were not clear enough for reproduction in our paper. It is necessary to have a clear and well defined picture in order to make a good cut which is used in printing the picture in the paper.

The following are the ones who sent the pictures which were selected as the five best in our Snap Shot contest, announced in the August 12th issue. Their pictures will be reproduced in our issue of September 2:

Hubert Fogelson, Freeport, Mich. Harold Fisk, Clinton, Mich., R. R. 1. Howard Sherman, Edwardsburg,

Mich. Mary Dodge, Romeo, Mich., R. R. 1.

Ruth Defoe, Yale, Mich., R. R. 5.

U. P. ROUND-UP WINNERS

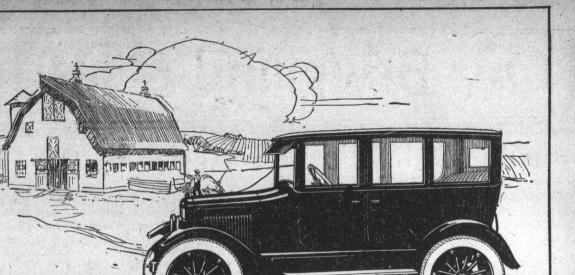
RON County took the major portion of the awards in boys and girls stock-judging contest at the Farmers' Round-up, held at Chatham, August 11, the teams winning the sheep and poultry prizes. Other counties of the

### Sweat Contest

Inasmuch as we have had some real hot weather, I believe it would be appropriate to have a contest on The Thing That Made Me Sweat the Most This Summer. This may have been such work as pitching hay, baking bread, or some exciting experience. For the five best letters on this subject, of not more than 100 words in length, we will give prizes of \$1.00 each. Address all your letters to Uncle Frank, Michigan Farmer, Detroit, Michigan.

Upper Peninsula represented at this round-up were Chippewa, Luce, Schoolcraft, Delta, Menominee, Dickinson, Gogebic and Houghton. There were 174 club members enrolled at the round-up, which included 23 clubleaders and extension workers. There were present 60 girls and 91 boys. In the poultry judging contest, Grant Gallup, of Gaastra, took first place, winning a pen of chickens, awarded by the Experiment Station. Individual honors in the poultry contest were awarded to Thomas Bomaster, of Gaastra; Rose Mayers, of Gabley, and Albert Hoholik, of Manistique, and Lawrence Banenick, of Manistique. Individual honors in the livestock contest went to Andrew Waite, of Iron County, and Francis Pellitier, of Luce County. Their winnings were respectively a pedigreed calf and pig. The list of points made by each county in the livestock contest is as follows: Iron, 1,534; Luce, 1,388; Baraga, 1,407; Dickinson, 1,397; Houghton, 1,-374; Schoolcraft, 1,360; Gogebic, 1,336. Harry Monroe, of Schoolcraft County, made the greatest number of points in the dairy judging contests. Here the rating by counties is as follows: Schoolcraft, 919; Iron, 912; Gogebic, 850; Dickinson, 763; Luce, 668; Baraga, 550 (Baraga entered two contestants only); Delta, 237 (Delta had one contestant only). Iron County won first place in the canning demonstration, while Luce and Menominee took second and third respectively. The first place in the potato demonstration was taken by Schoolcraft County, while Houghton and Menomince were in second and third places.

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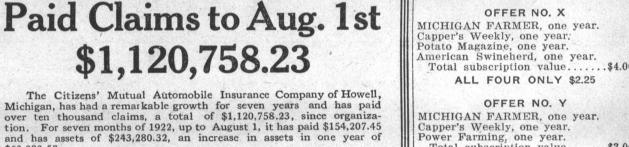
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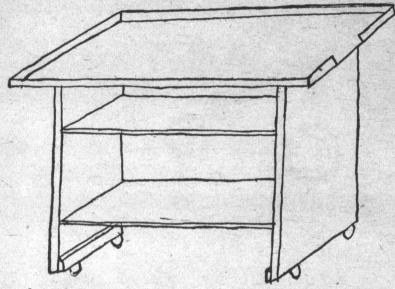


# Easily Made Kitchen Wagon

ONE of the most satisfactory labor

208 - 16

After the table is set the dessert savers, because a step saver, to may be arranged on the wagon and the housekeeper is the kitchen wagon. wheeled to the mistress' side. At Tea wagon, its more aristocratic sister serving time dishes are easily stacked is called, when it is used to roll the on the shelves beneath and the des-"makings" for an afternoon tea into sert passed without anyone leaving the the living room or out on the porch table. It is the work only of a few these hot summer days. But when minutes to finish clearing away, and



home-made, and for practical utility, the dishes may be wheeled to the it is known as the kitchen wagon.

The one illustrated is designed by Prof. Musselman, of the Farm Mechan- kitchen wagon useful in many ways. ics department of the Michigan Agricultural college. It is of a convenient size to slip through doorways, the top is 18 inches by 32 inches and the two shelves below give plenty of room to carry everything needed for the table into the dining room at one time. There is one-quarter inch by one inch strip around top and space at one end to remove crumbs.

kitchen altogether.

The efficient housekeeper finds the The day's baking is wheeled to the pantry in one load, canned fruit stored without a number of trips, and in many other ways it makes itself a handy helper.

Working designs for making the wagon may be secured by writing the farm mechanics department, or the extension department of the Michigan Agricultural College.

# Household Service

Realizing your desire to have a suit pattern as soon as possible, I have few hours and the salt will be softened chosen one which I trust will be satis- and warmed. It can be quickly disfactory and ordered same to be sent solved and distributed through the direct to you. As we do not have pat- butter. terns in stock at this office, the same has been ordered from New York and will arrive at your address in a few days.

for fall which contain both jacket and bine nicely.

I agree with you as to the width of your skirt. It must be of sufficient of people. width so that it will not lose its shape. In the event that this pattern is not full enough to suit you, by laying it off fold, it can easily be made larger.

Please advise me the amount of salt to be used to a pound of butter.-Mrs. G. F.

The amount of salt required for a pound of milk-fat depends greatly upon the individual taste as well as the old girl to blush because she is dress-

I have been watching your pattern department to find a suit pattern. I have 3½ yards of 60-in. material and would like the skirt 2½ yards at bot-tom and the jacket plain with braid or button trimming. I have a 42-inch bust measure and I believe it pays to put a little more cloth in skirt, as the tight ones wear out so quickly. If you have any pattern for this fall, please send me my size.—Mrs. F. A. D. Realizing your desire to have a suit hutter was washed. Let stand for a butter was washed. Let stand for a

# "Modesty"

There are no patterns in our catalog MODESTY, chastity and present skirt in one, so I am sending you the the popular topic of conversation, also chinty frock as she skips off for the mitts are far superior to the original. two separate patterns which will com-I can't remember when they weren't ber 4060, may be obtained in four the favorite theme for a certain class

To my mind it doesn't matter so much what a girl has or has not on her back, as it does on her mind.

If you remember rightly, Mother Eve never thought of her nakedness until she had sinned. (We won't mention Adam. Women have become so used to taking the blame they would feel lost without it).

There is no reason for a sixteen-yearmarket. However, the average, I be- ed in a comfortable manner. Of course,

there is such a thing as carrying any- ask for it, instead of putting them off the clothes of four and five-year-old they will be a good deal better off. children.

be dressed than in bloomer suits fastened above the knee? And why not explain to them the way of life in a half-hose? Is there any reason why a little girl should have black stockings, (I suppose to be modest they should be black), drawn over the knees to make them sweat and feel uncomfort- lers all summer, (and complain conable?

sleeves? Why should they be ashamed of their dimpled elbows and shoulders?

dog to be as uncomfortable as the little girl of fifteen or twenty years ago was, they would be arrested for cruelty to dumb animals. It's a wonder to me those little girls ever found out they had any bodies. Their mothers did the best they could to turn them into clothes racks.

all good and well, false modesty isn't. ment on. There is no need to tell a child to be a lady. Children are children, whether they are boys or girls. If we answer girls instead of the bad, (so we can their questions truthfully and teach talk about it), we won't see so very them the truth of life when they first much to hurt us .-- Mrs. L. K.

thing too far, for instance, criticizing until they seek information elsewhere,

The modern mother is learning her In what better way could a little girl daughter, and son, also, what real motherhood is. She is not afraid to way their young minds can understand and respect.

If the grandmothers and fault finders who wear long sleeves and mufftinually of the heat), and a skirt so And why not low necks and short long it trails the ground, for fear some one will know that the good Lord gave her two legs, were half as pure-minded If any one was caught causing their as the flapper in her peek-a-boo waist and rolled stockings, there would be less gossip and scandal going on and all would be happier.

There are no more girls going to the bad than there were fifty years ago. People have a way of forgetting what happened when they were young, and holding some young persons mis-step If modesty is a God-given instinct, up for the public to view and com-

> If we start out with good in our minds and look for the good in our

# **Dresses for School Days**

Father's worn-out trousers chal- is the up-to-date Fall and Winter book be made of big sister's worn-out linen misses and children's patterns, points dress; and when made with the kimono sleeve, it is simple-and makes a good play suit for the first days of school. This pattern number 4063 is cut in four sizes, 4, 6, 8 and 10 years.

What little lassie would not be happy to say "Good morning" to her new teacher in this attractive little frock? With its simplicity of design, it becomes the miss from 6 to 12 years. The pattern No. 4056 is cut in four sizes, 6, 8, 10 and 12 years. A 10-year

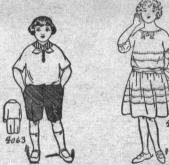
lenges you to recognize them in this of fashions, showing color plates and little suit for Sonny. The waist may containing 500 designs of ladies',



for the needle and a concise and comprehensive article on dressmaking. Send all orders to Pattern Department, Michigan Farmer, Detroit, Mich.

### WATERPROOF MITTS

The five or ten-cent cotton mitts which are so largely bought by workingmen may be waterproofed by dipping them in melted paraffine; or, if a thinner coat is prefered and only on the palm of the mitts, melted paraffine may be brushed over their surface. For handling damp bricks, for working with plaster, or cement, paraffine scrubbing floors, setting out plants, etc. Leather gloves for use by farmers in hauling damp corn fodder or any material that is wet, may be waterproofed in the same way. The coating of paraffine may be renewed as often as the surface needs it. Mitts and gloves-even boots for ditcherstreated with paraffine lasts longer, because the water can do them little damage. The comfort the wearer experiences by using waterproofed mitts or gloves far outweighs the bother of melting and applying the paraffine .--



4056

size requires three yards of 40-inch

This little miss feels just as happy

material. day fashions, these seem to be as she looks in this gayly flowered sizes, 4, 6, 8, 10 years. A 10-year size requires 3¼ yards of 32-inch material. When one is older-12 or morethis long-waisted dainty frock with two pockets made of striped percale,

bright gingham, cotton ratine or homespun will bolster ones self confidence amazingly. The pattern is number 4055, cut in three sizes, 12, 14 and 16 years. A 14-year-old size requires four yards of 32-inch material. The width of the skirt at the foot is 21/4 yards.

These patterns are all 12 cents, as M. A. C.

### 17 - 209

# Does It Pay to Pray? Our Weekly Sermon-By N. A. McCune

fasted and prayed before the God of the vote was to be taken, an old friend heaven." There is a striking contrast of Trumbull said to him, "I want you in the manner with which men meet to pray tonight for God's help in this trouble, in the livse of David and Saul. contest." While talking, an earnest



David became the greatest of God." When confronted with the prospect of when hard pressed by the enemy, he committed suicide.

more and more emphasized in the few lines from a little book called sponse. There were loud calls for "The New Life." (It would make a fine little Christmas present, or a McComb.) or to concentrate its forces on the task. This statement is supported by abundant testimony. Here is one far west. I have lived since then be-which I quote from a private letter youd the Rockies, where we hardly written by a New England physician when I feel like it, or when I am on the road anywhere, shently or audibly. He is just over back of a leaning pine you may remember to have seen directly across the road from our door. Dad's, or Aunt May's presence, or my and feeling that I have of God or of my mother or of Aunt May or of your serving the Christian Sabbath." beautiful mother, is one of peace and grace and faith, of beauty, of love and every time you start out to do anything that you know will test your powers. Pray at any time and everythat is the name I love best for God, whenever I feel I am up against it and weakening, or likely to prove not my best self in some trying 'situation: I am a poor fellow; I have not cul- prayer. tivated my gifts as I should have prayer is answered—sometimes not at one who a flood of light and beauty, of love the prayer he made to you. and devotion, pouring in upon me'." Then the author adds: "Other things being equal, the praying man is more efficient physically, mentally, spiritually, than the non-praying man."

The following incident is taken from the life of the late Henry Clay Trumbull, for many years editor of the Sunday School Times. When the famous Centennial Exhibition was to be opened in 1875, in Philadelphia, it was proposed to keep it open on Sun- eral hundred pounds by shoveling back days. Trumbull was on the Commis- and forth on a tight floor.

HE first impulse that Nehemiah sion, and he was determined if poshad, when faced by a difficult sible to prevent the opening of the situation, was to pray. "And I great fair on Sunday. The day before When David was in a tight place, not worker for Sunday opening came up knowing what and said, "We've got you this time; way to turn, he it's no use. You'll find out tomorrow." turned toward That night when Doctor Trumbull God. "And David tried to pray on this matter it seemed was greatly dis- as he could not. His words seemed tressed; for the to come back to him. Some way a people spake of conviction laid hold of him that everystoning him, be- thing was all right, and that God was cause the soul of working. The next morning his old all the people was friend, Doctor Peltz, said he had had grieved, every the same sort of an experience. They man for his sons were confident that God had taken the and for his daugh- matter in hand. The Commission met ters: but David that day, and before the meeting, Dr. strengthened himself in Jehovah his Peltz said to Trumbull, "There is a remarkable change here since last all Hebrew sovereigns, and the great- night. They are not nearly as sure est of Hebrew poets. Contrast Saul. of carrying their point as they were." The meeting was long and intense. a battle, he turned, not to God, but to Feeling on both sides was acute. It a necromancer. The following day, was recognized that on the one side was the fight for the American Sabbath, over against a great opportunity The subject of prayer has received for money-making. One man twitted a great deal of study of recent years. another with being a Puritan, and an-The result is, that prayer is more other taunted him with being a Unihighly thought of than ever. It is versalist, and of not believing in hell. "You'll have a hell here, if you open preaching of the church. Here are a those gates on Sundays," was the re-"Question!"

At this moment a man from Nevada birthday present. It is by Dr. Samuel arose. He said, "Mr. President, be-"Now it is prayer that fore the question is put I wish to say arms the will to beat down temptation, a word. I feel like a returned prodigal and I want to make a conaccomplishment of some forbidding fession. More than 20 years ago I went out from an eastern home to the far west. I have lived since then behave a Sabbath, and where other than to his nephew. He says: 'I stand here the best moral influences are all about in my front yard and talk with God, us. But as I have listened here this afternoon, old memories have come back to me." His voice choked, and he had to stop. "All these truths," he continued, "were familiar to me long ago, and it seems to me agam I can't see Him, but I can feel His today that I hear them repeated as I presence just as I feel yours, or your used to listen to them from the lips of my sainted mother, as, every evemother's presence; and the thought ning I knelt by her side in prayer. I want to give my vote in favor of ob-

The effect of this speech was overwhelming. Men who previously had confidence. Cultivate the habit of talked for Sunday opening were conprayer. Pray to the Great Spirit vinced that they were wrong, and made haste to state that they were for Sunday closing of the exhibiton. vote stood: twenty-seven for The where. I say to the Great Spirit, for closing, nine for opening. "And so," says Trumbull, "the question was settled right. God led the leaders. God be praised for the result!" Other incidents occurred in his life, almost 'Help me out, Great Spirit, will you? as striking as this, in relation to

The question is often asked, what done; I lack strength of character in about unanswered prayer? There is many ways; help me out, dear Great a good answer to that question. God Spirit.' And just in proportion as I may not answer the prayer, but He am in earnest and have faith, my answers the pray-er.' He answers the When you say "No," pravs all and sometimes so fully that I feel to your child, that is an answer to

### SUNDAY SCHOOL LESSON FOR AUGUST 27

SUBJECT:-Nehemiah's Prayer.

LESSON:-Neh. 1:1-11. GOLDEN TEXT:-The supplication of a righteous man availeth much in its working. James 5.16.

Feeds can be mixed in lots of sev-

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width of the skirt at the foot is 17% yard. Price 12c. yard.

4066—Ladies' House Dress. Cut in 7 sizes: 34, 36, 38, 40, 42, 44 and 46 inches bust measure. A 38 inch size requires 5% yards of 32 inch material. The width of the skirt at the foot is 2¼ yards. Price 12c.



4041—Ladies' "Over" Blouse. Cut in 6 sizes: 34, 36, 38, 40, 42 and 44 inches bust measure. A 38 inch size requires 2¾ yards of 32 inch material. Collar and cuffs of contrasting mate-tel accurate 40 inches wide rial require 3/4 yard 40 inches wide. Price 12c.

4045-Ladies' Negligee and Cap. Cut in 4 sizes: Small, 34-36; medium, 38-40; large, 42-44; extra large, 46-48 inches bust measure. A medium size requires 2% yards of 32 inch material. The cap alone requires 1/2 yard. Price 12c.



4042-Child's Play Suit. Cut in 4 sizes: 2, 4, 6 and 8 years. A 4 year size requires 3½ yards of 32 inch material. To trim as illustrated re-quires 5% yard of contrasting material 32 inches wide. Price 12c.

3807—Ladies' House Dress. Cut in 3326—Childs Rompers. Cut in 5 6 sizes: 34, 36, 38, 40, 42 and 44 inches sizes: 1, 2, 3, 4 and 5 years. A 4 year bust measure. Size 38 will require size will require 3% yards of 27 inch 5¼ yards of 36 inch material. The material. Price 12c.



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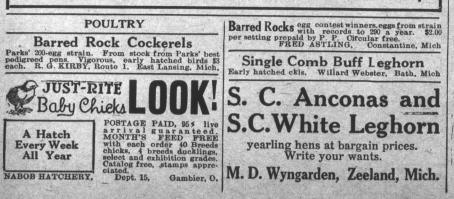
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> State Farms Association E. A. SEE, Manager Kalamazoo, Mich



# Farm Poultry

### POULTRY CULLING A SUCCESS.

H ERE is evidence that poultry cull-ing is on a sound basis in Indiana. Last year there were 1,339,825 hens handled in the various counties of that state by poultry demonstrators. From "pinch method." That means a pinch this number 269,751 hens were culled of the powder is dusted in the out. The authorities report from present indications that this demonstration and the same amount placed in the achievement will be exceeded this year. It would seem, therefore, that breast and under each wing. About farmers generally are convinced that seven pinches of the powder will prothe experts can pick out from the flock the poor producing birds.

## FIGHT LICE AND MITES

NO poultry-keeper, either upon a large or small scale, can expect a profit from his operations if his flock and his poultry house are infested with lice and mites. Both are easily brought upon perfectly clean premises, possibly by the introduction of fowls purchased elsewhere. Spar-rows are frequent spreaders of these pests. Lice may be readily controlled by Have lost some hens. Their combs turn dark and their legs and feet white, get poor and are dumpish for a few days and then die. What can I do for same?—F. C. H.

Lice may be readily controlled by providing a good dust bath and by the use of blue ointment or one of the many lice powders that are on the market. The control of mites, however, is not so simple. Unlike the hen louse these are not, as a rule, found upon the fowl; neither are they killed by dusting. They are found usually in cracks around the roosts and nests and will be readily detected upon examination of these parts. At night, when the fowls are on the roosts, these mites may be seen issuing from cracks and running along the roosts. The only method of control is therough cleaning and disinfecting of the premises. Remove all droppings, lit-

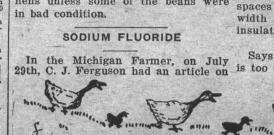
ter and nesting material, scrape and sweep out every particle of dirt, and give the house a thorough soaking with a good strong disinfectant, forcing it by means of a spray pump into M all cracks.

present or not, the roosting and nesting quarters should be treated weekly during the summer, since the mites breed very rapidly.

as it evaporates quickly its effects are not lasting. A good disinfectant mix- mortem and note the condition of the ture may be made at small expense by adding crude carbolic to the kerosene, about a quart to a gallon of the losses. latter, or by adding one of coal tar disinfectants.-E. W. G.

### FEEDING CULL BEANS

Are cooked cull beans fit food for laying hens? I tried it last spring and some died very sudden, but was not sure that was the cause.—Mrs. S. F. to poultry with good results although but not the bottoms. Tests were rebelieve it is best to give the balanced that leaving any part of the hive within the litter. Then the beans can be heat at that point easy. While dead that the beans caused the loss of the had better increase the size of these hens unless some of the beans were



"Hot Weather Hints for Poultrymen" and I would like to ask how to treat a flock of hens with sodium fluoride to prevent lice. Also please tell me what is the substitute for milk in feeding poultry?—Mrs. J. N.

Sodium fluoride is applied by the feathers near the skin under the vent feathers of the head, neck, back, tect the hen from lice. A pound of the powder will treat about one hundred hens. It can be applied over a large paper to save any that might be wasted.

The substitutes for milk in feeding poultry are beef scrap, fish scrap, high grade tankage or dried buttermilk.

#### PROBABLY LIVER TROUBLE

In cases of liver trouble the comb of a bird usually turns very dark. The bird will not eat and becomes emaciated and soon dies. It may be caused by heavy feeding or a general breakdown, the cause of which might be difficult to determine. Such troubles can usually be prevented by the use of a balanced ration and plenty of litter and range where the birds can exercise. Perform a postmortem on hens that die and an observation of the internal organs may locate a more definite cause for the losses.

#### HENS CHOKE

We have trouble with our hens by making a squawking noise. They keep getting worse, making the noise oftener until their heads turn black and they just gasp for breath .-- F. C.

The hens show symptoms of choking Whether mites are known to be due to some foreign material which has become lodged in the throat. Sometimes the bird's mouth can be opened and the obstacle removed. Again the obstruction may be too far Ordinary coal oil will kill mites but down. When a hen dies under such conditions it pays to perform a postinternal organs. This often helps to locate the trouble and prevent further

### PROTECT BOTTOM OF BEE HIVES

BEE keepers have learned that the loss of heat through the bottoms of bee hives during the winter time, is very rapid. This is contrary to the usual belief. The practice has been to Boiled cull beans are sometimes fed insulate the top and sides of the hives precautions should be taken to feed cently made by government experts no spoiled beans. At the same time I and from these tests it was made clear dry mash and part of the scratch grain out insulation makes the escape of worked into the ration by using them for occasional feeds. I do not think ernment experts that the bee keeper spaces to four or even six inches in width and then fill with some cheap insulating material like sawdust.

> Says Sam: A fellow too old to learn is too old to live.

AUG. 26, 1922

Dairy Farming

The August summary for 18 Cow Testing Associations in Michigan fall freshening.

Supplements to pasture will pay. pasture may not entirely maintain her. Hence small additions of hay, especially legume hay or grain mixtures will help greatly for future efficient milk production. Some farmers will always say that there's no money in took an auto tour to different stock keeping the cows. There is very little profitable money in keeping poor cows. Just because milk or butterfat is not bringing a 1919 price does not indicate that efficient cows, averaging a good flow of milk over the year, are a non-paying proposition.

Mr. C. M. Stewart has a herd of registered Holsteins at Paw Paw, Mich., which have averaged in the South Van Buren Cow Testing Association year 428.9 pounds of butterfat per cow. Other men like Mr. E. C. Hawks, with a grade Guernsey, milked over 7,813 pounds of milk, and Mr. Roy Fowler, in the same association with a Registered Jersey making 451.7 pounds butterfat, point out the fact that a good herd average requires good breeding blood, liberal feeding methods and care, which will bring profitable results in the dairy herd under 1922 conditions.

Mr. George C. Knight was the cow tester in the South Van Buren County Cow Testing Association.

Comparing the production in June with July we find the following dif ferences:

		Monthly	Averag
	The states	All Cows	Butter
Month	No. of Cows	Milk	fat
June	3,410	726.7	28.99
July	3,752	627.2	26.87
			A Contraction

Difference..... 99.5 2.12 The 3,752 cows reported for the month of July milked considerably less each day than during the previous month, approximately 100 pounds less during the month.

A number of cow testers report that cows are being dried off for fall freshening. This is certainly the time to have them go dry and fall of the year is certainly the best freshening time.

The pure bred sire situation is improving each month in each association. Kalamazoo Cow Testing Associ ation has been 100% P. B. Sires since October, 1921. Wayland in Allegan county, Wayne, Livingston and Lapeer are 100%.-A. C. BALTZER.

#### THE CAUSE OF ROPY MILK

THE Dairy Extension Specialist of the South Dakota College, Horace Jones, says that ropy milk is caused by an organism usually occuring in stale water. These bacteria may gain access to the milk through rinsing utensils in water from a tank. or they may adhere to the bodies of the cows as they wade through stagnant pools and later drop into the milk pails.

Many people have misunderstood this trouble and have disposed of cer- and resume production, trusting to tain cows thinking they were the cause of it. But rinsing the utensils in clear fresh water and steaming, scalding or sunning them will prevent most of the trouble. Washing the cows' flanks and udders in a mild disinfectant be- you raise.

WHAT THE COW TESTERS FIND fore milking should eliminate the remainder of it.

Most of this trouble occurs at this time of the year and will cause a thickbrings out the fact that many Michi- ening of the milk in a few hours so gan cows are now at a low milk pro- that it may be drawn out in long ducing rate due to either extreme threads. The milk may be entirely shortage of pasture or going dry for sweet, yet present this thick ropey appearance.

### Even though the cow is dry a short CLINTON COUNTY FARMERS TAKE LIVESTOCK TOUR

O<sup>VER</sup> two-hundred livestock breeders of Clinton County recently



The following letter was received from subscriber X. Y. Z. We print it because it expresses a thought which we have not received from any other subscriber:

"Beg pardon, but please allow me to ask you to do away with Hy Syckle and the Al Acres nonsense in your paper. It is not interesting, amusing, instruc-tive or funny. 'It does make me tired.' Please drop it.—X. Y. Z., Oakland County, Mich."

We have received hundreds of letters favorable to these two features, but this is the first unfavorable one. To get a better idea of the thoughts of our readers we would like definite expressions of opinion from as many readers as possible as to whether this "nonsense" is worth while. Please address your opinions to the Fun Editor. Michigan Farmer, Detroit, Mich.

farms of the county. Most of these were Shorthorn breeders, but they were accompanied by members of the boys' pig club, and the Duroc Breeders' Association. The tour commenced at Fowler and worked to the northeast section of the county. The farms of prominent breeders of all kinds of livestock were visited. One of the features of the day was a colt show at the farm of W. G. Anderson, which was held under the direction of those interested in breeding Belgian horses. At noon a dandy dinner and entertainment was furnished by the Ladies' Aid of the Lowe Church, and in the evening the tour was ended by a dinner given by the St. Johns Chamber of Commerce. At this dinner many prominent farmers and city people gave addresses. The entire day was pronounced a success and the evening program greatly fostered the gettogether spirit between farmers and business men.

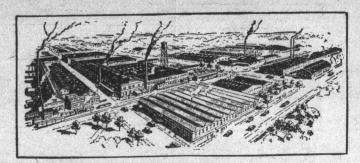
# FARMER AND STRIKES

### (Continued from page 200)

and refuse to sell what he produces. But he does \_not believe in that sort of thing. He knows that such a policy would bring about in this great Republic exactly the same sort of conditions that exist in Russia.

The farmer calls upon capital and labor to cease their petty bickerings American institutions and the American sense of fair play to see that justice is done to both of them.

Raise what you feed and feed what



# Forty Acres Faith and Works

If I could have my wish, every man and woman who is thinking of buying a motor car for use on a farm would spend a day in Jackson seeing how the Earl is manufactured in our three great plants.

You would not have to know all about high-grade materials and production methods to see where the Earl gets the endurance, economy, beauty and flexible power which make it the most comfortable, dependable and economical motor car sold at the moderate price of \$1095.

From the huge hammers forging crank shafts and forty other units out of five kinds of white-hot steel - through acres of automatic machines-to the paint shop with its sixteen finishing operations—your factory tour would impress Earl quality and craftsmanship on you at every step.

Backing up the car's striking beauty, astonishing road performance and economy, this visible, built-in quality and durability are responsible for the enthusiasm of Earl owners and the overwhelming demand which has kept the factory working three shifts of men in many departments.

The Earl is on display in some near-by city. If you can't come to Jackson, go in and size it up. Ride in it. Take the wheel yourself. I know it is the kind of motor car you can afford to own and drive.

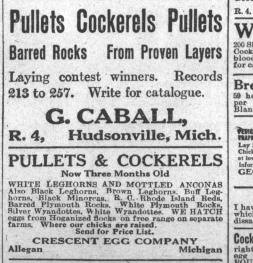
Write me for an illustrated catalogue Cherene and Gen't. and the name of the nearest Earl dealer. Pres



This space belongs to Simon Harkema and Sons. Breeders of American-Eng-lish Strain of S. C. W. Leghorns.

Chicks, Pullets and Breeding Cockerels in season. Sold out for season of 1922.

Simon Harkema and Sons, Holland, Mich.



S. C. White Leghorns Cocks and Cockerels RALPH S. TOTTEN, Pittsford, Mich, White Leghorn Cockerels

strain. Never offered before under \$5.00. For quick sale \$3.00 delivered. E. E. VANTINE, Twin Lake Farm. Pontiac, Michigan.

\$12.00 per Baby Chicks \$12.00 per Hatching eggs, \$1.50 per setting to \$15.00 per 100, We are listing If varieties of pure bred fowls; Chick-ens, Geese, Ducks & Guineas, also breeding stock. send for prices and circular. Booking now for early delivery. CLINTON HATCHERY & POULTRY FARMS, Wilmington, Ohio.



Barron Strain S. C. W. Le 8 weeks old \$1.00 12 weeks old \$1.2 arling hens \$1.00 each \$95.00 per 100 lithy selected birds, no culls or weaklings. PINE BAY POULTRY FARM. Holland, Mich. Good h

Whittaker's R. I. Reds

od tested for bacillary white diarrhoea. catalog. Interlakes Farm, Box 39. Lawrence Bred-to-Lay White Wyandottes

per 100. EVERGREEN POULTRY FARM, Blanding & Sons, Greenville, Mich

TENERTET WHITE LEGHORNS Lay 265 to 301 eggs per year. Winners at 50 shows Chicks, eggs, pullets, hens and males shipped C.O.D. I low prices. Write today for catalog and completer information to the World's Largest Leghorn Farms. GEO. B. FERRIS, 934 WINON, 62AUB BARINS, MICH.

ANCONA PULLETS I have 300.3 months old utility selected Ancona pullets which I will sell at \$1 30 each. Order at once and avoid dissappointment. Thomas Beyer, R,4. Zeeland, Mich. Cockerels, year old hens. S.O.W. Leghorn Barron's right and get the best from trap nested stock with egg records from 200 up to 279 BYRON CENTER POULTRY FARM, Byron Center, Mich.

Barred Rock and W. Wyandotte Breeding Stock at bargain prices now. HOWARD GRANT, Marshall, Mich Additional Poultry Ads. on Page 215

Herefords

Brookwater **Far**m

Jersey Thoroughbreds

Few cows and bull calves. Best breeding line. Guar-anteed. Tuberculin tested twice a year. If you have no money will take bankable note. E. W. Vasvary, 509 Free Press Bullding, Detroit, Mich., Main 1267.

JERSEY BULLS nearly ready Spermfield Owl breeding. Herd tuberculin tested. FRED L. BODIMER, Reese, Mich.

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

For Sale Jersey Bulls ready for service; Lad, Majesty breeding, WATERMAN & WATER-MAN, Packard Rd., Ann Arbor, Mich.

Lillie Farmstead Jerseys For sale, 12 heifers bred to freshen this fall, 6 bull calves, 6 to 5 Colon C. Lillie, Coopersville, Mich.

Jersey Bull Calves 7 mos. to near yearlings strong in St. Lamberts. T. B. tested. H. HALSEY, Homer, Mich.

The Maple's Shorthorns

Kirk Levington Lad, by imported Hartforth Welfare, in service. Bulls and heifers for sale.

that will put weight on your dairy calves the diff. erence will soon pay for the bull. Now selling good Bootoh and Scotch-topped yearlings, reasonably priced. We guarantee every animal to be a breeder. Federal Test. One hour from Toledo, Ohto, N. Y. C. R. R.

**BIDWELL STOCK FARM,** 

Clayton Unit Shorthorn Breeders' Assn. Scotch, for sale all ages. W. J. Hinkley, Sec'y, Flushing, Mich

FOR SALE

Polled Shorthorn Cows & Heifers

in calf and calf by side. Also a few young bulls. Herd headed by Victor Sultan and Royal Non-

We can please you in richly bred cattle with quality at farmers' prices. GEO. E. BURDICK, Mgr. Branch County Farm. Coldwater, Mich.

DICULAND CUODTUODNC

UICULAND SUOUI UOUNS

We are offering two splendid white yearling bulls by Imp. Newton Champion and a few extra good heifers and young cows at very attractive prices. For full particulars write to

C. H. PRESCOTT & SON.

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

Claradale Milking Shorthorns

For Sale: Thoroughbred Shorthorn bull Duch months old. F. S. WEIS, Brighton, Michigan

Gobleville, Mich.

Tecumseh, Michigan

SHORTHORNS

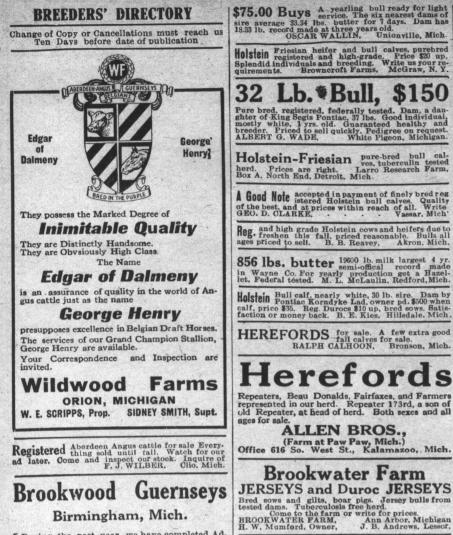
BUY A BULL

mo. old

J. V. Wise,

Box D,

BIDWEL



F During the past year, we have completed Ad-vanced Registry with 7 Guernsey Cows-two of which were helfers with their first calves. The average butter-fat production of these cows was 650 pounds, and three of them were leaders of their respective classes for the State of Mich. We have for sale a number of good bull calves from these cows and their daughters, sired by Rosstta's Marshall of Waddington, No. 54420, Grand Champion Bull at the Michigan State Fair last year.

last year. Our herd is not large, but it is select. Visitors are always welcome at the farm. Prices are rea-sonable, considering the quality of the stock.

JOHN ENDICOTT, Proprietor

Registered Guernseys Another crop of calves. Choice bull calves \$75, their breeding and records will please you. J. M. WILLIAMS, No. Adams, Mich.

For Sale Guernsey Herd Bull 3 yr. old. Sire, Anton's May King sold for \$7,000.00. Dam, Bonnie's Bloom 530 lbs. B. F. Price \$175. Fall bull calves by above sire. Accredit Herd. GILMORE BROTHERS, Camden, Mich.

GUERNSEYS -REGISTERED BULL Of world champions. A. R. co ws. Federal inspected. HICKS' QUERNSEY FARM. Saginaw. W.S. Mich.

GUERNSEYS 3 fine heifers, 1 bull, all registered, \$400, if sold this month. W. W. BURDICK, Williamston, Mich.

Registered Guernseys tuberculin tested and free from Chalmers & Son, 1224 Olivia Ave., Ann Arbor, Mich. or George Chalmers, R. 8, Ann Arbor, Mich.

For Sale Guernsey Bulls. Nearly ready for service. Ancestry. E. E. PRICE, Fremont, Mich. Ancestry.

## WINNWOOD HERD **Registered Holsteins** It was through the daughters of Flint Maplecrest Boy that

Flint Maple crest Boy that Sir Ormsby Skylark Burke Our Junior Herd Sir. Produced the Junior Champion and Reserve Grand Champion Heifer, at the Michigan State Fair this year, in a class of 38. His get won first in Calf Herd, also first in get of sire, in a class of 33. A son of 'ither of these great bulls will help the in-dividuality and production of your herd. We hav's bulls at the breeder's price, from dams with records up to 38 lbs. of butter in seven days, and 1168 lbs of butter in one year. As us about a real bull, a Maplecrest or an Ormsby, rouw u with here. Rochester, Mich. JOHN H. WINN, Inc.,

The Traverse Herd We have what you want in BULL CALVES, the large, fine growthy type, guaranteed right in every way. They are from high producing A. R. O. ancestors Dam's records up to 36 lbs. Write for pedigrees and quotations, stating about age desired.

TRAVERSE CITY STATE HOSPITAL Traverse City, Mich.

We invite the discriminating Dreeder and farmer, who is inlneed of a real bull, that will transmit the com-bine qualities, beef, milk, high in butter fat, type, character, beauty. We do state official milk texting. Come and see us or write for circulars and reasonable prices. F.W. Johnson, Custer, Mich., Mason Co. Box 26 For Sale King Segis Breeding Bulls of show type that are out of A. R. O. Dams. Central Mich. Shorthorn Breeders' Assn. offer for sale both milk and beef breeding, all age Write M. E. MILLER, Sec'y, Greenville, Mich

**Grand River Stock Farms** Cory J. Spencer, 111 E. Main St. JACKSON, MICHIGAN

# Stinking Smut of Wheat

(Continued from page 195)

molds, sprouts or freezes it is injured. Formaldehyde, "Sprinkling It sows unevenly and often gives a poor stand. If held more than a short Formaldehyde, "Soak and Skim time, the formaldehyde spoils the germination.

Many farmers simply sprinkle the grain with the weak formaldehyde solution. This works almost as well as the soak and skim method provided the grain is fanned before treatment to remove smut balls.

But a study of conditions on Michigan farms showed that farmers in general, are not using either of these methods to control smut. The methods are good, safe, if properly applied, but too cumbersome to be popular.

In 1918 the farmers of Kent County tested extensively the so-called "dry formaldehyde" treatment which has become so popular with oats for smut treatment. In this method the concentrated formaldehyde is diluted about four times with water and sprayed on as the grain is shoveled over and over. In the hands of any farmer who was careful and who followed directions, this method with fairly clean wheat gave satisfactory control of smut. The treatment had no bad effect on germination if the grain was sown at once, but if the wheat was held, disastrous effects on germination were had. In the hands of the careless farmer, who did not follow directions, who applied five times the required amount of formaldehyde, who left the grain covered too long, who held the grain for some days before planting, the method did not work. Moreover the smut control was not so good with badly smutted grain, although it was satisfactory with the ordinary run of seed wheat

The situation then in Michigan is something like this. There are three ways to treat wheat, all of which will work if worked right, but the fact is that either from fear of injury, lack of time or indifference to the great in a tumbling churn. Fairly good loss from smut, wheat growers as a dusting can be obtained by using a tub rule do not treat wheat at all for smut.

### A New Method Devised

In 1917 Darnell Smith, an investigator in Australia, discovered a method of preventing smut by dusting grain with copper carbonate dust. This dusting gave control of smut with no injury to germination. Independently at the Michigan Experiment Station in 1919, a similar treatment, using dehydrated copper sulphate dust, was tried. This dust gave perfect control of smut, but there were bad effects on germination. Mackie and Briggs of the U.S. Department of Agriculture in 1920 discovered how to use the copper sulphate dust and get rid of the injury to germination. By mixing the dehydrated copper sulphate with hydrated lime, equal parts, and using two ounces of this dust on a bushel of grain, perfect control was obtained and no bad effects on germination resulted. Tests were made of this method in 1920 at the Michigan station but the experiment yielded no results due to absence of smut. There were no bad effects on stands, even from using 16 ounces of dust to the bushel.

We are now able to report the results of the 1922 tests. The smuttiest winter wheat we could find-grain that was simply black with smut and containing smut balls in abundancewas given various treatments. There were abundant checks of untreated grain. The results are given in the following table. The plots used were 5 drill rows, 10 rods in length, all planted side by side, the same day.

Some Smut Treatment Results 

Method" ..... θ.

Method" ..... 0.5% Copper Carbonate, 2 oz. perbushel ..... 1.4%

Copper Sulphate (Dehydrated) and Lime (Hydrated) 2 oz.

per bushel ..... 4. % In the meantime Lambert and Bailey reported in 1921, results of a successful test of the method in Minnesota and Stephens and Woolman in Oregon reported no bad effects on germination, but give no report on smut control. In the spring of 1922, a large planting, using various treatments of spring wheat, was made at the college, but unfortunately for the test, no smut developed in either the treated or untreated plots. There was with the treatment no bad effects on germination.

It is my opinion that the tests in Michigan and other states made so far show that with the various copper dusts we have a simple, safe and easy method to treat wheat for stinking smut.

With extremely smutty grainworse than any farmer would plant, smut has been reduced remarkably. I confidently believe that with ordinary seed grain the dust method will reduce the smut to a mere trace. I advise, therefore, every farmer to test the dust method, using 2 oz. per bushel. This amount of dust is about two heaping tablespoonfuls.

The method should be tried experimently. Until it has been given years of trial, under varying conditions, we will not be able to determine its true value.

How the Dust Is Applied

In our experiments, when using. small quantities, we simply shook the grain in a jar with the requisite amount of powder. For large scale treatments we have tumbled the grain and after sprinkling on the dust, stirring with a spade until the grain is thoroughly coated. The amount suggested, 2 oz. to a bushel, is enough to give every kernel a coating of protective dust. Any method such as pouring from one milk can to another, tumbling about in a barrel or mixing in some special machine, fashioned like a cement mixer will work. The idea is simply to coat the grain with dust.

The treatment can be given any time before planting-so long as the chemicals are dry, they are inert. There is no soaking of the grain to contend with. When the grain is planted and becomes soaked with water then the copper sulphate and the lime make a sort of Bordeaux on the grain and this kills the smut. The copper carbonate acts similarly.

We have not yet had success in treating oats and barley by this method and are not advising it to replace the formaldehyde treatment with these grains.

Stinking smut is a serious, wasting disease on Michigan farms and should be controlled. The formaldehyde treatment is not generally used and is not popular with farmers for use with wheat. The dust method, as yet in the experimental stage, is being suggested. This paper presents the evidence so far as now available so that farmers may begin to test this method and determine its availability and practicability for their use.

A good cement floor in a henhouse is economical, durable, ratproof, easy to clean, dry, and sanitary. It costs a little something, but is worth a lot

Veterinary. CONDUCTED BY DR. W. C. FAIR.

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

Failure to Come In Heat — Partial Loss of Power—Heifer calved on April 7th recovered nicely, but has failed to come in heat. About a year ago my collie dog commenced to have rather poor use of his hindquarters. Is very stiff when he gets up, but after a time warms out of it somewhat. What can be done for him? A. G. S., Galien, Mich.—Give cow one dram ground nux vomica, one dram ground capsicum, one dram ginger in feed twice daily. Yohimbine is the best drug to give her, but rather expensive. Give your dog good care, keep bowels open and he will perhaps remain in about his present condition. Opening on Side of Teat—Heifer fresh for first time has opening on side of one teat. I. E. G., Kalkasha, Mich.—It is impractical to operate on her until she is dried. If your vet-erinarian decides to do the work now, a teat tube or spring dilator may be worn to drain off the milk and pre-

Mich.—It is impractical to operate on her until she is dried. If your vet-erinarian decides to do the work now, a teat tube or spring dilator may be worn to drain off the milk and pre-vent distention and reopening of the orifice. I believe it good practice to wait until-cow goes dry, then operate. Cow Holds Up Milk—I have a cow which is inclined to hold up her milk, but she is in good health. R. B., Belding, Mich.—It is not easy to un-derstand why a cow should hold up her milk; however this habit is some-times overcome, by kee fing the cow quiet for 30 minutes before milking, kind treatment, gentle milking, sup-pression of noise, allowing her to eat food while you milk is worth a trial, and the same milker who is acquaint-ed with her will get best results. Nasal Catarrh—My cat acts as if he had a severe cold affecting his head. He sneezes quite a bit, breathes loud, has some discharge from eyes and nose. C. G., Camden, Mich.—Dissolve a teaspoonful of boric acid in one-half pint of water, apply to eyes three times a day. Dissolve a teaspoonful of bicarbonate of soda in a tea-cup of water—dip nose and face into this solution three times a day. Lame Cow—I have a fine Jersey cow who suddenly went lame in her right fore leg. I have examined the hoof but failed to find a cause of her lameness. She has a calf eight days old. She is not sick, has good ap-petite, but I would like to know what to do for her? D. M., Marine City, Mich.—First, make a diagnosis, then prescribe a remedy; always locate lameness, then commence treatment. Give cow rest, nature may effect a cure, if not, you may be able to locate the ailment and assist nature in effect-ing a cure. Colic—I have an orphan lamb which I am raising on cows milk She has

ing a cure. Colic—I have an orphan lamb which

I am raising on cows milk. She has had three sick spells, during this sick-ness she stretches and lowers belly so much that she almost touches the ground, then she rolls over on back,

so much that she almost touches the ground, then she rolls over on back, and soon has poor use of hindquarters. I forgot to say, she bloats. G. P. L., White Cloud, Mich.—Usually the ewes milk is rich, therefore you make a mis-take in feeding separator milk. Feed whole milk from your best cow, and don't forget the importance of keep-ing feeding utensils clean. Keep bow-els open by giving olive oil. Loss of Vision—What ails my hens? Several of them have gone blind. They are pure bred Brown Leghorns and laying hens. They seem to lose their sight slowly, not suddenly, soon grow thin, and linger few days, then die. Their eyes look bright and natural. Is it anything that will be likely to spread through the flock? H. R. B., Chelsea, Mich.—Loss of vision is sometimes due to an anemic condition of the brain, or it may be the result of a watery effusion or hemorrhage; a watery effusion or hemorrhage; however I am at a loss to know the cause of your birds going blind. Perhaps they pick up poison. You fail to give many symptoms of disease. Have your veterinarian make a careful examination of a sick bird, also of

ful examination of a sick bird, also of one after death. Dairy Question—I have a Jersey heifer 14 months old due to soon freshen. Had I better continue to milk, or dry her at once? When shall I breed her? G. L. D., Elwell, Mich.— If she is of good size, has well de-veloped udder and good feeder, milk her for four or five months. Breed her right away, but don't forget the importance of generous feeding and good care. good care.

## THE MICHIGAN FARMER





Additional Stock Ads. onPage 215



### **GRAIN QUOTATIONS** Tuesday, Aug. 22

Wheat Destroit—No. 2 red, \$1.08; No. 2 mixed and No. 2 white, \$1.06. Chicago—No. 2 red, \$1.02@1.03; No. 2 hard, \$1.03@1.04; September at \$1.02½. Totado Toledo-Cash, \$1.101/2; September

at \$1.09. Corn

Detroit-Cash No. 2, 70c; No. 3 yellow, 69c. Chicago—No. 2 mixed, 62@62½c; No. 2 yellow, 62½@63½c.

Oats Detroit—Cash No. 2 white, 38c for old and 36c for new; No. 3, 33c for

new.

Chicago—No. 2 white, 32½@34½c; No. 3 white, 31½@31¾c. Beans

Detroit — Immediate and prompt shipment, \$8; September, \$5.75 per cwt.

New York—Michigan and New York, red kidney, \$8.75@8.80. Chicago—Michigan choice, hand-picked, \$9@9.15; red kidneys at \$8.75

@9.

Rye Detroit—Cash No. 3, 73c. Chicago—69¼ @69½ c. Toledo—74c.

Seeds

Detroit—Prime red clover cash at \$10; alsike, \$10; timothy, \$2.75. Toledo—Prime red clover at \$10; alsike, \$9.85; timothy, \$2.60.

Feeds Detroit—Bran at \$24; standard middlings, \$26; fine middlings, \$30; crack-ed corn, \$32; coarse cornmeal at \$29; chop, \$24.50 per ton in 100-lb sacks.

Hay Detroit—No. 1 timothy at \$17@18; standard and light mixed, \$16@17; No. 2 timothy, \$16@17; No. 1 clover, \$15@ 16; rye straw, \$12.50@13; wheat and oat straw, \$11.50@12 per ton in car lots.

lots. Fruit Chicago—Pears, Early Clapps, \$1.00 @1.25 a bu; peaches, Elberta \$2@ 2.25 bu; plums, per 16-qt. case, \$1.00; blackberries, per 16-qt. case, \$3.00; huckleberries, per 16-qt. case, \$2.00; blueberries, 16-qt. case, \$4.00; black grapes, baskets, 5@5½ lbs, 20@25c; apples, Duchess, \$1.50@2.00 per bbl.; Wealthies, \$3.00@3.50 per bbl.

### WHEAT

In spite of apparent obstacles, re-ceipts of wheat at primary markets last week were the largest for the corresponding week with but two ex-ceptions in a dozen years and about 40 per cent above the average. Cars were stored in the southwest before threaching storted athematics the more threshing started otherwise the move-ment would not have been so heavy. Most of these cars have now been used

The so that lighter receipts from that sec-tion are probable. Canadian wheat will be a factor in the market in a few weeks. That country is the principal competitor of the United States for the export trade and Canada's surplus is even larger than our own

than our own. The delay in buying at present means a more concentrated demand later, but Europe apparently is acting on the theory that their own import needs for wheat are no more urgent than the necessity of exporting coun-tries to find a market for their surpluses.

### CORN

occurred in the last day or two and the loss may not amount to more than the normal deterioration during August

Corn prices advanced as a result of dry weather damage reports and also dry weather damage reports and also because of a strong demand for cash corn. In spite of heavy receipts the visible supply at terminals has shrunk rapidly recently and still more of it has been sold for early distribution. In the nine months ending August 1, about 35 per cent more corn has dis-appeared from commercial channels into domestic consumption or gone for export than in the corresponding export than in the corresponding period of the past ten years. OATS

oats crop year receipts of oats at pri-mary markets fell nearly 20 per cent below the ten-year average for the corresponding period. The extremely low price is anything but attractive and there are reports of replacing oats with wheat in the rotation

with wheat in the rotation. The commercial distribution of oats in the year ending August 1 was 219,-461,000 bushels compared with a ten-year average disappearance of 255,-403,000 bushels.

## SEEDS

No forecast has been made of clover and timothy seed production for this year but the estimate of a large acreyear but the estimate of a large acre-age and high yield of hay seems to justify expectation of a heavy seed crop. The weather, until the last week, has been favorable and progress reports have been optimistic. Har-vest is about to begin. Since specula-tors and dealers must carry the seed sold in the next few months until the big consuming demand develops next spring, trade sentimnet which is now mostly bearish is an important factor in making the fall market. The price in making the fall market. The price has dropped \$3 or more below the early summer level for prime red clover.

### FEEDS

Prices on most feeds are steady. The northeast is buying wheat feeds as recent price levels at milling cen-ters seem to be attractive, bran be-ing cheaper than coarse grains on a pound basis. Oil meals are quiet at unchanged prices.

HAY

Light receipts of good quality hay are sustaining the market for the good grades, but poor hay is in ex-cess of the demand even at a heavy discount. No. 2 timothy is quoted \$1 to \$4 below No. 1 prices. Clover and heavy clover mixed are hardest to move move.

POULTRY AND EGGS

The egg market is showing more strength than at any time in several weeks. Receipts have dropped off rapidly recently although rail condi-tions may have been a factor which will mean an increase later on. Stor-see heldings are now being fed upon

will mean an increase later on. Stor-age holdings are now being fed upon the market. The trend of prices is likely to be upward from this time on but any advance will be gradual owing to excessive storage stocks which must be absorbed. Poultry handlers are expecting a big run this fall. Prices have de-clined recently and a further loss is probable in the next month or six weeks by which time the storing sea-son will begin. Receipts will treble in the next three months if the usual course is followed. Since those who Chicago—Eggs, miscellaneous, 21½ course is followed. Since those who Chicago-Eggs, miscellaneous, 21½ @22c; dirties, 16@18c; checks, 15@ 17c; fresh firsts, 22½@23c; ordinary firsts, 20@21c. Live poultry: Hens, 22c; broilers, 25c; roosters, 15c; ducks, 22c; geese, 14c; turkeys, 25c. Detroit-Eggs: Fresh candled and graded, 21@22c. Live poultry: Heavy springers, 28@30c; light springers, 23 @24c; heavy hens, 22@23c; light hens, 18@19c; roosters, 15c; ducks, 18@20c; turkeys, 25c. DETROINED

### BEANS

The trade in this commodity has been dull and sluggish for the past ten days. Foreign white beans are hard to move unless offered at very attractive prices. Michigan whites are not quoted. Red kidneys from any source are also very slow.

### BUTTER

Light receipts were the primary cause of a gain of 1 to 2 cents in but-ter prices last week. This is the nor-mal period for an advance to begin as the storing season generally ends

# Live Stock Market Service

#### Wednesday, Aug. 23

8.50

5.00 5.00

Cattle

Cattle Estimated releipts today 11,000; market steady. Beef steers, medium and heavy weight 1,100 lbs up, \$10.15 @10.95; do, medium and good, \$8@ 10.15; do, common, \$6.25@8; light weight 1,100 lbs down, good and choice, \$9@10.50; do, common and medium, \$6@9; butcher cattle, heifers, \$4.85@9; cows, \$3.65@8.15; bulls, bo-logna and beef, \$3.65@6.50; canners and cutters, cows and heifers, \$2.50@ 3.75; do, canner steers, \$3.75@4.75; veal calves, light and handyweight, \$10.75@12; feeder steers, \$5.50@8; stocker steers, \$4.75@7.50; stocker cows and heifers, \$3.50@8.50. Bheep and Lambs

# Sheep and Lambs Estimated receipts today

14,000. Estimated receipts today 14,000. Market steady. Lambs, 84 lbs down, \$12.25@13; do, culls and common, \$8.50@12; spring lambs, \$8.75@11; ewes, \$3.50@7.65; ewes, cull and com-mon, \$2@4; breeding ewes, full mouths to yearlings, \$5@11.75; year-ling wethers, \$11.75@12.75.

### **BUFFALO**

Cattle

Receipts, 10 cars, slow; choice to prime shipping steers, \$9@9.75; heavy grass steers, good quality, \$8.50@9.25; light native yearlings, fancy quality, \$10.25@10.75; medium to good, \$9@ 9.75; best handy steers, \$8.50@8.75; handy steers and heifers, \$7@7.25; handy steers and heifers, \$7@7.25; western heifers, \$6.50@7; light Michi-gan butchering heifers; \$6@6.50; best fat cows, \$5.50@6.25; medium to good, \$4.25@5; cutters, \$3.25@3.75; canners, \$1.50@2.50; best heavy bulls, \$4.50@5; heavy bologna bulls, \$4.25@4.50; com-mon bulls, \$3.50@4; best feeders, \$7@ 8; medium feeders, \$5@6; stockers, good, \$4.50@5; light common, \$3.50@ 4; milkers and springers, \$80@90; common, \$25@40. Calves: Tops, \$13.50. Hoos

Hogs Receipts, 25 cars; lower; medium, \$9.25@9.75; heavy, \$9@9.25; yorkers, \$9.75@9.90; pigs, \$8.50@9.

Sheep Receipts, 10 cars; steady; top lambs, \$13; yearlings, \$9@10; wethers, \$7.50 @8; ewes, \$5@6.50.

by the middle of September and the daily additions to storage stocks are relatively small. Hot dry weather has damaged pastures and reduced produc-tion as well as lowered the average quality, while the rail situation is blamed for retarding shipments to market. Export inquiries helped the upburn along.

Prices on 92 score fresh butter were: Chicago, 34½c; New York, 36c. In Detroit fresh creamery in tubs sells for 32c.

#### POTATOES

FOTATOLS In addition to large local supplies the car-lot movement of potatoes has become heavy again and markets are weak. Early Ohios are quoted at \$1 to \$1.15 per 100 pounds sacked in mid-western wholesale markets. Car-lot shipments in the week ending August 12 were 4,341 cars compared with 3,-860 cars in the corresponding week last year, 3,006 cars two years ago and 2,942 cars three years ago.

### **APPLES**

**APPLES** The increase in the commercial apple crop is in the barrelled apple states, which have 19,965,000 barrels compared with 7,385,000 barrels two years ago. The boxed apple shipping states have about 13,347,000 barrels compared with 13,819,000 barrels last year. Carlot shipments of apples in the week ending August 12, were 993 cars compared with 649 cars in the corresponding week last year, 704 cars two years ago and 550 cars three years ago. years ago.

#### WOOL

WOOL Woolen and worsted mills are re-ported to have filled their require-ments for the next two or three months and are buying additional supplies leisurely, but more or less steadily. Assurance of tariff protec-tion is helping to keep the market firm. East Indian wools, which are now coming in free, will be dutiable under the proposed permanent tariff and an effort is being made to rush and an effort is being made to rush them in ahead of its passage.

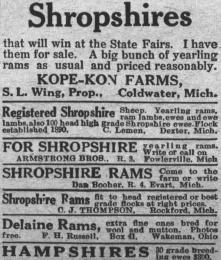
### DETROIT CITY MARKET

**DETROIT CITY MARKE1** Even though the production on the farms is heavy, the supply on the mar-ket is only moderate. The demand is greatest for melons, plums, peaches, pears, beans and cucumbers. Duchess and Wealthy apples sell for 50c@\$1.25 per bu; butter beans, \$1.50@2.50 per bu; cucumbers, 50c@\$1.25 per bu; elderberries, \$1.00@1.50 per bu; green corn, 10@25c per doz; osage melons, \$1.00@3.00 per bu; green onions, 15@ 50c per doz bunches; potatoes, \$1.00@ 1.25 per bu; peaches, \$1.00@2.50 per bu; pears, \$1.25@2.25 per bu; plums, \$1.00@2.50 per bu. **GRAND RAPIDS** 

### **GRAND RAPIDS**

Prices on this market are as fol-lows: Potatoes, 65@75c per bu; cab-bage, 40c per bu; wax beans, 50@75c per bu; squash, 90c per bu; sweet corn, 10@20c per doz; muskmelons, \$1.25@2.10 per bu; tomatoes, 70@80c per bu; peaches, \$1.00@2.00 per bu; plums, \$1.00@1.50 per bu; pears, \$1.00 @1.25 per bu; Duchess apples, 35@40c per bu. per bu.

SHEEP



J. R. FRANK. Registered Southdown Best of bu G. BURTON WRIGHT, Lay and lambs

## Market steady. Best heavy strs, dry-fed.. Handyweight bu., dry-fed Mixed strs, hfrs, dry-fed Handy light bu., dry-fed.. Light butchers Best cows ...... Butcher cows ...... 7.25@ 8.00 5.50@ 6.50 5.00@ 5.50 5.50@ 5.00@ 4.00@ $\begin{array}{c} 5.00\\ 4.00 @ 4.50\\ 2.75 @ 3.00\\ 2.00 @ 2.75\\ 4.75 @ 5.00\\ 4.00 @ 4.50\\ 2.50 @ 2.50\end{array}$ Common cows ..... Canners .... Choice bulls ..... Bologna bulls ..... Stock bulls ..... Stockers ..... $\begin{array}{c} 2.50@ \ 3.50\\ 4.00@ \ 5.50 \end{array}$ Feeder .

DETROIT

Cattle

Milkers and springers... 40.00@75.00 Veal Calves Market steady.

.....

### Sheep and Lambs

1	Sneep steady.		
-	Best spring lambs	\$12.00@:	12.75
f	Fair lambs	9.00@	11.00
ř	Light to common	6.00@	8.00
-	Their is mod shoot		
	Culls and common	1.00@	2.50
	Heavy sheep	3.25@	4.50

## Hogs

Heavies, 220 lbs up..... 8.00@ 9.00 

### **CHICAGO**

Hogs

orn. In spite of heavy receipts the isible supply at terminals has shrunk apidly recently and still more of it as been sold for early distribution. In the nine months ending August 1, bout 35 per cent more corn has dispered from commercial channels nto domestic consumption or gone for xport than in the corresponding eriod of the past ten years. **OATS** In the first three weeks of the new Hogs Estimated receipts today 21,000; holdover 10,659. Market open and slow, fairly active, 15@25c lower. Bulk of sales, \$6.50@9.25; tops, \$9.35; heavy, 250 lbs up, \$7.50@8.90; medium, 200 to 200 lbs, \$9@9.35; light lights, 130 to 150 lbs, \$8.80@9.25; heavy packing sows, 200 lbs up, \$6.50@7.25; packing sows, 200 lbs up, \$6@6.75; pigs, 130

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### POTATO GROWERS MEET

(Continued from page 196) the simple reason that agricultural prices cannot logically rise to meet commodity prices under present world conditions in view of the fact that we produce a surplus of agricultural products above our demand for domestic consumption. Europe is better supplied with agricultural products than with other commodities and can buy needed food from us only through the exchange of other products. Our farmers cannot curtail production as factories can for the reason that they are in the peculiar position of largely furnishing their own labor. They will continue to produce and must take the price which their staple products will bring in Europe. Europe cannot af-ford to pay big prices for our products, hence prices for our products cannot go up and prices for manufactured products must go down.

President Friday gave a most interesting explanation of the basis of his conclusions in this regard. He explained that available figures for five year periods from 1899 to the present time show that the gross value of our agricultural products at the farm and the net value of manufactured products, after the cost of materials is deducted, are almost exactly parallel for each period. This balance he regards as an economic principle and not an accident. As a consequence prices of manufacturers must come down to meet agricultural prices if a normal volume of production is to be maintained.

On the assumption that all prices will stabilize at around 125 to 130 per cent of the pre-war level, President Friday believes it is the business of M. A. C. to promote more economic production on Michigan farms by aiding Michigan farmers to produce more per unit of labor; to promote a better quality of farm products which will command a more ready market at top prices, and to promote more economic marketing organization to reduce the expense of distribution. President Friday emphasized and made clear to his audience, that it is essential to the prosperity of Michigan agriculture that through better organization we must promote a higher quality of farm products and reduce marketing costs to the minimum.

Fred Vanderhulen, of Falmouth, manager of the largest local potato exchange in the organization advocated monthly pools in the marketing of the potato crop. He believes that the people of the country can eat all of the potatoes which will be produced in the U. S. this year if they are distributed right and sold right. He favors distribution through labor organizations wherever possible.

Manager Harger of the Stanwood Exchange also favored a monthly pooling plan and more frequent meetings of the managers of all local exchanges.

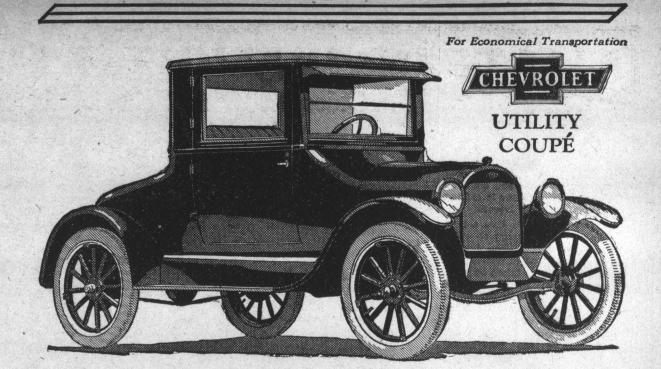
Judge Harris, manager of the Ellsworth Exchange touched on personal experiences in the conduct of a cooperative organization. He stated that after an experience of twelve years on the judicial bench in his county and his later experience in running a co-operative warehouse, he felt that there was a larger opportunity in the warehouse to work out public problems in the interest of his community. His vision of the cooperative movement is that it is just beginning.

H. F. Baker, of Weadock, congratulated the delegates on the success of their co-operative undertakings and advocated joining hands with consumers to eliminate the parasites who still get from twenty-five to fifty per cent of the consumer's dollar.

(Continued Next Week)

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### THE MICHIGAN FARMER



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216-24

### TRANSMITTING SETS

SO far this column has been devoted entirely to receiving sets, but at this time of the year many young enthusiasts are at work constructing parts for their sets so that they may be all ready for the clear cold nights of the winter, and the chief joy of radio for the amateur is talking back and forth with his friends.

It must be remembered that a government license is necessary to operate a transmitting set. The license is, however, issued free of charge and the examination may be taken by mail, if the applicant lives at any distance from the Radio Inspector's office. In order to be licensed to transmit either by radio, telegraph or telephone, it is necessary to show that you can send and receive the continental Morse code at a speed of not less than ten words per minute. The examination consists of several questions pertaining to actual operation and the radio laws of the United States.

There are two types of transmitting sets: spark transmitters and C. W. (continuous wave) transmitters. The former may be used only for telegraphic work, but the latter may be used for either telephone or telegraph communication. As far as cost is concerned; one is about as expensive as the other, except that for very short distance work (two or three miles) a spark transmitter may be assembled from odds and ends that should cost almost nothing.

As the hame implies, the spark transmitter is one which sets up the waves in the ether by means of high voltage sparks. Therefore most pieces of apparatus, except a high tension magneto which produces electrical sparks, may be converted into a telegraph transmitter. A Ford spark coil gives excellent results and has been known to have a record distance of forty and fifty miles. A medical coil will give some results, although it is usually of rather too small dimensions to work any distance.

It is required by law that every amateur spark transmitter be tuned to sharp 200 meters by means of an inductively coupled "oscillation trans-This is nothing more than former." two coils of eight or ten turns apiece of very large wire, one placed inside of the other.

A transmitting set which may be counted on to have a range of ten miles can be constructed from the following parts: Ford spark coil, telegraph key, set of dry cells or a storage battery, one used 8"x10" photographer's plate, two pieces of tin foil 6"x8" two double binding posts and forty feet of No. 4 B. E. S. copper wire.

Soak the photographer's plate in hot water and rub with the fingers until all of the emulsion is off, then clean and dry it. Glue or shellac the two pieces of tin foil, one on either side so that there is a one inch margin left all around. Fasten the plate in an upright position in a wooden rack of some sort with spring clips to make contact with the tin foil on each side.

Screw the two binding posts into a block of wood about three inches apart. Pass a nail through the hole of each so that the heads come very nearly This serves as a spark gap. together.

There are several methods of constructing the oscillation transformer. It may be made flat (pancake style), or in the shape of two helical coils, one inside of the other. The latter method is preferable as long as wire is to be used. It is best to look at the pictures of several different types in the catalogs of radio supplies and build the one that would be easiest for you.

If a Ford coil is used, it is necessary to solder clips onto the contact points of the coil so that wires may be connected to them.

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