

MICHIGAN FARMER

AND
LIVE STOCK
PUBLISHED WEEKLY.

JOURNAL
ESTABLISHED 1843.

VOL. CLVII. No. 14
Whole Number 4168

DETROIT, MICH., SATURDAY, OCTOBER 1, 1921

ONE YEAR \$1.00
FIVE YEARS \$5.00

Cost of Keeping Horses on the Farm

What Farm Management Experts Found on Michigan Farms

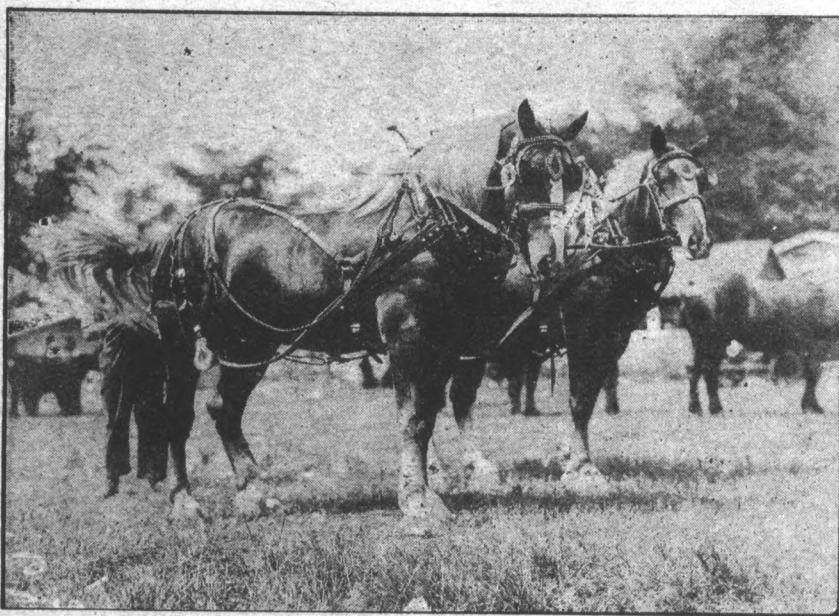
By Howard M. Eliot

HORSE costs are one of the large items of overhead. According to figures just compiled from records of twenty-five farms in Wayne and Monroe counties on last year costs, it required \$163 on the average to keep a horse, and each horse with its accompany equipment represented an average investment of \$758. These figures also show that it took 93.5 hours of the farmer's time to care for each of his horses. It would seem, therefore, that one of the larger items in the operation of the farm, is horse maintenance and also that horses represent one of the larger items of the capital necessary in the operation of the farm.

Items entering into direct costs on horse maintenance included: Grain, (oats and corn), \$56.70; roughage (corn stover, hay, mixed pasture and bedding), \$105.91; miscellaneous (decreased inventory, horse purchases, depreciation), \$25.15. From this total was deducted \$11.03 for horse sales, and \$13.75 for manure value, leaving the cost per animal \$163. Feed, of course, is the largest item in these costs and is very much reduced at the present time because of the decreased prices at which feed is selling. With feed computed at present prices, the annual cost is \$94. So far as the present year crop is concerned, however, feed that entered into its production must be figured on the higher basis.

It is often said, that the home-grown feed is not a legitimate charge against the keep of a horse as it is a cost entirely within the farm, and does not represent any cash actually paid out. And again, without the horses, the feed could not be raised, so that what the farmer should consider is the amount of surplus feed he has to sell after his horses have consumed the necessary amount to keep them. By looking at the problem from this standpoint there may be some justification for not charging home-grown feeds to horses. On the other hand, the farm tractor is coming to take the place of horses as a part of farm power. Some horses may be disposed of when the tractor is purchased. By buying a tractor and keeping fewer horses, one can sell more feed. One will have less horse cost and more tractor cost. In a way, such horse cost may be credited to the income due to the tractor. From this standpoint then, it is highly desirable for every farmer to know what his horses are costing him per year. He would then be better able to judge the economy of the horse as a power plant.

Below is a table showing the items of cost that entered into the up-keep of the one hundred and eighteen horses owned on the twenty-five farms on which figures were kept. Some farmers fed more grain and less roughage than the average, while others fed more roughage and less grain. So the



figures will not exactly fit any particular farm, although they will represent average conditions and will be very close to what the average farmer's horses are costing him. However, it would be highly desirable for any farmer to substitute his own figures in these costs and therefore arrive at

a figure that applies more particularly to his farm.

Average Direct Cost on One Horse for One Year.

Expenses.	
Oats, 1,773 lbs. @ \$45.10 ton.....	\$ 39.99
Corn, 860 lbs. @ \$38.89 ton.....	16.71
Stover, 631 lbs. @ \$5.83 ton.....	1.84
Hay, 10,113 lbs. @ \$19.47 ton.....	98.43
Pasture, 3.5 wks. @ \$0.52 wk.....	1.82
Bedding, 1,377 lbs. @ \$5.54 ton..	3.82
Decreased inventory	10.12
Horse purchases	8.75
Depreciation on equipment.....	1.93
Miscellaneous costs	4.35

Total expenses\$187.76

Receipts.

Horse sales	\$ 11.03
Manure	13.74

Total receipts\$ 24.77

Net direct cost per horse.....\$162.99

Investment per horse\$136.79

Equipment per horse..... 21.06

Total investment per horse..\$157.85

Most farmers are short of capital. Indeed, a farmer's one life-long struggle is to get together enough capital to buy his necessary equipment and to pay for a farm. Money invested in horses is an important part of this capital. At \$158 each, four horses represents approximately enough capital to buy a tractor.

For the purpose of furnishing farmers with figures on comparative costs between horses and tractors, as well as of determining other costs connected with the operation of a farm, the Farm Management Department of the Michigan Agricultural College has entered into a careful plan for the determination of such costs.

The figures published above were taken from records kept by twenty-five farmers in Wayne and Monroe counties. These figures were kept under the supervision of a man from the farm management department. This man visited each of these farms once a month. He checked over the farmer's accounts and helped him in the matter of weighing and measuring, as well as on all the other accounting problems in connection with the operation of the farm. Three similar farm accounting routes have been established so that figures are being obtained on one hundred representative farms in the state. One of these routes is in the dairy section, another is made up of twenty-five farms upon which sheep and steers are being fed, the third consists of twenty-five general farms of the central section of the state and the fourth of twenty-five farms in the northwestern section of the state on each of which farms at least five acres of potatoes are being grown. Farm accounts, being kept up on these farms, reliable figures will be obtained covering all the various types of farm costs.

Figures on cost of keeping cows for 1920 will be published soon and figures upon tractor cost and other items will follow.

Michigan Corn Threatened

Corn Borer is Working Westward

THE European corn borer has already extended its work along the south side of Lake Erie and over considerable territory in the province of Ontario. Both of these invasions bring this threatening pest close to Michigan farms. In Ontario fields of corn have been totally destroyed during the present year. It will be a sad day for corn-belt farming if the devastation now to be seen in a few places in Ontario should ever spread over the big corn states.

On the south side of Lake Erie the borer has been found all the way from western New York to the Michigan line and it is possible that some infestation may yet be discovered in this state before the season is over. Michigan farmers, county agents, and all state agencies will need to cooperate with the authorities of other states and with the federal government to the end that the progress of this pest be stayed as much as possible against the day when some expedient is found for its control or until some parasite develops to do the work for man.

At a conference of official entomologists of the United States and Canada held at Sandusky, Ohio, last week, a policy was adopted with regard to this insect looking toward the development of a practical control plan. Quarantine measures were recommended and the closest cooperation in both quaran-

tine and control work between state and federal authorities is needed. Authorities in infested states and provinces are urged to make financial provision for carrying on an extended co-operative warfare against the enemy. A study of the history of the insect abroad is being made and published for the benefit of entomologists in this country.

Practical methods to retard the progress of this borer suggested to corn growers by these entomologists are: Cut corn early and close to the ground. Ensilage entire corn crop if possible. Shred or cut cornstalks before feeding. Uneaten stalks from yards and fields should be completely plowed under or burned before May 15. Roll corn stubble with heavy roller in fall and then plow immediately. Burn the weeds and grasses in or near infested places. Since early planted corn is most likely to become infested, later planting is recommended. On one Ontario farm corn planted May 23 showed from seventy-one to eighty-two per cent of the stalks damaged, while corn planted June 13 on the same farm showed but from eleven to eighteen per cent infestation. It was further suggested that a strip of corn be planted early on the side of the field toward the source of infestation as a trap crop and that when the eggs are deposited in this early corn it be plowed under.



Published Weekly Established 1843 Copyright 1921

The Lawrence Publishing Co.
Editors and Proprietors

1632 Lafayette Boulevard Detroit, Michigan
TELEPHONE CHERRY 3384

NEW YORK OFFICE-95 Madison Ave.
CHICAGO OFFICE-111 W. Washington St.
CLEVELAND OFFICE-101 E. 1013 Oregon Ave., N. E.
PHILADELPHIA OFFICE-261-263 South Third St.

M. J. LAWRENCE President
PAUL LAWRENCE Vice-President
J. F. CUNNINGHAM Treasurer
F. H. NANCE Secretary

I. R. WATERBURY Associate Editors
BURT WERMUTH
ALTA LAWSON LITTEL L.
FRANK A. WILKEN

I. R. WATERBURY Business Manager

TERMS OF SUBSCRIPTION
One Year, 52 issues \$1.00
Three Years, 156 issues \$2.00
Five Years, 260 issues \$3.00
All Sent postpaid
Canadian subscription 50c a year extra for postage

RATES OF ADVERTISING
55 cents per line agate type measurement, or \$7.70 per inch (14 agate lines per inch) per insertion. No advertisement inserted for less than \$1.65 each insertion. No objectionable advertisements inserted at any time.

Member Standard Farm Papers Association and Audit Bureau of Circulation.

Entered as Second Class Matter at the Post Office at Detroit, Michigan, Under the Act of March 3, 1879

VOLUME CLVII. NUMBER FOURTEEN

DETROIT, OCTOBER 1, 1921

CURRENT COMMENT

Emergency Credit for Farmers

THE War Finance Corporation is a government agency originally organized to aid in the industrial expansion found necessary in the production of war material. Later it was made a government agency for the financing of exports to foreign countries. Its latest development is as a government agency for the financing of agricultural loans, under the plan briefly described in another column of this issue.

While its activities in this direction will of necessity be more or less complicated and involve a good deal of detail on the part of the banks through which the advances for the loans are made, this is of minor importance as compared with the benefit which should accrue to agriculture and to the country at large. It is a matter of common knowledge that in the present emergency country banks are unable to satisfy the legitimate demands of their farmer patrons for the proper financing of their business, particularly stock feeding enterprises which involve a very considerable investment. The financing of these and other legitimate agricultural activities through the aid of the War Finance Corporation should aid thousands of farmers to market their grain and forage crops through live stock to the best advantage and insure to the country a more constant and dependable supply of foodstuffs during the coming year. This is a step which should go far toward beginning the sound rehabilitation of business at the point where deflation struck its first and hardest blow.

The Grand Rapids Fair

ANOTHER successful fair has been held at Grand Rapids. That this generation is developing higher agricultural standards was evident at this fair as it has been at others this year. In all the departments at the West Michigan exhibition the entries were many in number and of superior quality. This was particularly true of live stock, in which division the housing accommodations were inadequate to accommodate the animals. Stockmen were also pleased with the generally good quality of the showings. The premiums were well distributed among the exhibitors, another evidence that the quality ran uniformly high.

The grain display covered an unus-

ually large floor space and the exhibits were attractively arranged and classified to the advantage of those who were studious in making comparisons. We always look to the Grand Rapids fair for a good showing of fruit, being in the great commercial fruit belt of the state. There was no disappointment here this year. The progressive fruit men take this opportunity to compare the result of their painstaking efforts, and while it has been a little harder this season to get high-class exhibits owing to the small-

ness of the crop, one would not have gathered this opinion from the excellent showing made at this fair. The vegetable division also vied with the other departments for the attention of the fair visitors and by no means did the well-arranged displays fail in the attempt.

Demonstrations of a wide variety drove home in the minds of visitors agricultural maxims and pertinent truths which it is often difficult to teach by ordinary methods. The boys and girls did much of this work and

their connections therewith wonderfully helped in securing a wider attention.

The weather man was good. On Thursday when the big crowds always come, the weather was ideal and as a result of the good day and the good program, fully forty thousand people passed the gates. The great majority of this large crowd was from rural districts. In all, it is certain that the West Michigan Fair for 1921 contributed much to the establishing of agricultural ideals and to the general progress of this industry.

Government Will Finance Agricultural Loans

THE War Finance Corporation has just issued a circular to bankers giving information as to the procedure through which they can secure advances on agricultural loans. These advances are to be made under Section 24 of the War Finance Corporation Act, as amended, which reads as follows:

"Sec. 24. Whenever in the opinion of the Board of Directors of the Corporation the public interest may require it, the Corporation shall be authorized and empowered to make advances upon such terms not inconsistent with this Act as it may determine to any bank, banker, or trust company in the United States, or to any cooperative association of producers in the United States which may have made advances for agricultural purposes, including the breeding, raising, fattening, and marketing of live stock, or may have discounted or rediscounted notes, drafts, bills of exchange or other negotiable instruments issued for such purposes. Such advance or advances may be made upon promissory note or notes, or other instrument or instruments, in such form as to impose on the borrowing bank, banker, trust company, or cooperative association a primary and unconditional obligation to repay the advance at maturity with interest as stipulated therein, and shall be fully and adequately secured in such instance by indorsement, guaranty, pledge, or otherwise. Such advances may be made for a period not exceeding one year and the Corporation may from time to time extend the time of payment of any such advance through renewals, substitution of new obligations or otherwise, but the time for the payment of any such advance shall not be extended beyond three years from the date upon which such advance was originally made. The aggregate of advances made to any bank, banker, trust company, or cooperative association shall not exceed the amount remaining unpaid of the advances made by such bank, banker, trust company, or cooperative association for purposes herein described.

"The Corporation may, in exceptional cases, upon such terms not inconsistent with this Act as it may determine, purchase from domestic banks, bankers, or trust companies, notes, drafts, bill of exchange, or other instruments of indebtedness secured by chattel mortgages, warehouse receipts, bills of lading, or other instruments in writing conveying or securing marketable title to staple agricultural products, including live stock. The Corporation may from time to time, upon like security, extend the time of payment of any note, draft, bill of exchange, or other instrument acquired under this section, but the time for the payment of any such note, draft, bill of exchange, or other instrument shall not be extended beyond three years from the date upon which such note, draft, bill of exchange, or other instrument was acquired by the Corporation. The Corporation is further authorized, upon such terms as it may prescribe, to purchase, sell, or otherwise deal in acceptances, adequately secured, issued by banking corporations organized under section 25 (a) of the Federal Reserve Act: Provided, That no purchase of acceptances of the said banking corporations shall be made except for the purpose of assisting the said banking corporations in financing the exportation of agricultural and manufactured products from the United States to foreign countries. No such acceptances shall be purchased which have a maturity at the time of such purchase of more than three years.

Advances or purchases may be

made under this section at any time prior to July 1, 1922."

This circular interprets the provisions of the act and defines in a general way the procedure to be followed in the securing of advances on agricultural loans. Briefly, this information states that "The War Finance Corporation is authorized to make an advance to any bank, banker, or trust company which may have made advances for agricultural purposes: that is, for any purpose connected with the growing, harvesting, preparation for market, and marketing of agricultural products, or the breeding, raising, fattening, and marketing of live stock; or which may have discounted or rediscounted agricultural paper; that is, any note, draft, bill of exchange, or other negotiable instrument issued for an agricultural purpose." These advances may be made at any time prior to July 1, 1922, and will mature not later than one year from the date of the advance.

Forms of obligation and security are prescribed and it is announced that The War Finance Corporation has appointed Agricultural Loan Agencies in the various agricultural and live stock sections of the country, whose duty it will be to receive and pass upon applications for advances, subject to the approval of the War Finance Corporation. Announcement is made that the addresses of these agencies can be obtained from the nearest Federal Reserve or Branch Bank, or from the War Finance Corporation, Washington, D. C., but as we go to press the Detroit Branch of the Federal Reserve Bank of Chicago advises that no Agricultural Loan Agency has as yet been appointed for this state.

The Michigan Farmer has taken steps to learn the full details regarding this new activity of the War Finance Corporation. These details, however, will not concern the farmer who is in need of a loan for the financing of a stock-feeding enterprise or other agricultural activity at the present time. He can avail himself of government aid in this direction only through the medium of his banker. Having made the loan in accordance with the prescribed regulations, the banker can then secure an advance to cover the aggregate of his loans for similar purposes from The War Finance Corporation. With this fact in mind, Michigan farmers who are in need of short-time loans to finance their business should get in touch with their bankers at once. While the plan under which these advances will be made will involve much detail for the banker, yet every public spirited banker should be glad to accommodate all worthy applicants among his customers under conditions which will enable him to secure an advance of the funds so used. This should relieve a somewhat serious situation in many communities where the banks are unable to satisfy the needs of their agricultural patron for the proper financing of their business in the present emergency.

News of the Week

Wednesday, September 21.

FARMERS near Sioux Falls, South Dakota, used guards and searchlight to protect melon patches from thieves.—Miss Daisy Dry, of Murphysboro, Ill., regains her faculties after being paralyzed and speechless for years. The physician attending her admits that her cure was made through a miracle, not through science.—Several veterans of foreign wars arrive in Detroit from Alaska and the Philippines to attend the convention.—A new batwing monoplane was successfully tried out in Detroit in the presence of naval officials.—The clocksmiths of Minneapolis say that breakage of mainsprings in watches and clocks increase fifty per cent during the heat of the past summer.—Sixteen years ago Mr. and Mrs. Lon Schneider arrived in Garner, Ia., from Lisbon, North Dakota, after a ten-day trip in a horse-drawn rig. The other day they made the same trip of four hundred miles in eight hours in an airplane piloted by their son.

Thursday, September 22.

THE ranks of the Russian Reds have decreased two-thirds, due to desertions and deaths.—Rumors indicate that General Felix Diaz is engineering a plot against the Obregon government in Mexico.—Walter Lincolnton, who was acquitted for murdering his wife, was given life sentence for shooting another woman.—Chicago records show that there are more suicides in that city this year than any year since 1915.—Because Vincent Dziegielewski, of Detroit, failed to pay for the burial of his wife, Stanley Lapo, the undertaker, seized the coffin, taking the body out.—Veterans of foreign wars pass resolutions, at their convention in Detroit, asking the government that preference be given them in homesteads.

Friday, September 23.

CHARLES G. WILLIAMS, twenty-one years old, who grew up in dresses as a girl on the Island of Oahu, has just finished two months in the outside world as a man. He will return to the island and resume his feminine habits.—Eight hundred unemployed men and women in London, England, loot a clothing store owned by two Americans.—At the annual conference of the Methodist-Episcopal Church at Benton Harbor, Mayor J. N. Kluck stated that that city would run on the ten commandments hereafter.—United States steamship lines announce a \$25 reduction in third-class passenger rates.—Albania notified the League of Nations that a new Balkan war is impending unless the league prevents it.

Saturday, September 24.

CHARLES W. PUGSLEY, of Nebraska, was nominated by President Harding as assistant secretary of agriculture.—Serious disorders are reported in Vienna, Austria, following the close of the Bourse, Vienna's Wall Street.—A cyclone caused a hundred thousand dollars worth of damage in the business district of Zanesville, O.—Thadious Brown, one of the fat citizens near Fresno, Calif., was stuck in the entrance of a cave for three days and had to fast. His decrease in weight during that time enabled him to get out.—A rabbit which was feeding near a moonshine still in North Carolina, got up enough bravery to chase a hunting hound.—The governor of New Jersey says there are few congressmen without hip flasks and that prohibition only prohibits those who have not the price.

Sunday, September 25.

PRESIDENT HARDING has been elected to receive the thirty-third degree of Masonry.—Mrs. Ella V. Hadley is granted a divorce because her wealthy husband gave her oatmeal for a wedding breakfast, and oatmeal continued to be their chief diet for several years. (Continued on page 318).

Dairy Farming

WHY FILLED MILK THREATENS THE DAIRY INDUSTRY.

IN the preparation of filled milk, the skim-milk is reduced by evaporation to about half its bulk, and after this operation there is added from six to eight per cent of cocoanut fat. The resulting mixture is an exact imitation of pure evaporated or condensed milk. It has the same consistency, the same color, the same taste, and the difference in the two products can only be detected by an expert or by chemical analysis.

The compound can be made more cheaply than the condensed milk, and many people buy it in the belief that they are getting full condensed or evaporated milk. According to the testimony of the leading manufacturers, skim-milk has recently sold for thirty-five cents per hundred and refined cocoanut oil at twelve cents per pound. The cost of a quantity of skim-milk and cocoanut fat sufficient to fill forty-eight one-pound cans of the compound is a little over eighty cents, or less than two cents per one-pound can. The retail price of the one-pound can is from ten cents up.

Storekeepers sell the filled milk with the statements that "it takes the place of milk," "just as good as condensed milk and much cheaper." "Instances have been found," says Mr. Voigt, a congressman from Wisconsin, "in which the cocoanut fat was mixed with milk and sold as cream; the compound has been used for making ice cream, and recently a company has been formed at Pittsburgh to manufacture an artificial cream from skimmed or fresh milk and cocoanut fat. The company states in its prospectus, 'we can wholesale our Kream for one hundred per cent less than cow's cream and still make a profit of over one hundred per cent.' In many cases retailers sell the compound for the same price as the straight evaporated milk, although the price per one-pound can to them is about three cents less."

VALUE OF CORN FODDER.

How many head of cattle (cows) can be wintered on ten acres of good corn fodder, feeding three times a day?—H. P. O.

It is absolutely impossible for any one to give you anything like exact information on this question. In the first place, no one would attempt to winter cows on just cornstalks alone. It is a very unbalanced food. They ought to have clover hay, which is rich in protein, to balance up the cornstalks, which are carbonaceous, and besides that, it would not be economy to attempt to winter the cows wholly on a roughage ration. It would pay to feed a little less roughage and some grain. You would get better results and you would really save money in the long run.

The probability is that these cornstalks would furnish four or five tons to the acre but only about sixty per cent of dry cornstalks are consumed. You cannot make the cows eat the large butts of cornstalks. That would bring it down to two or three tons of really edible forage for your cows.

Then, again, in figuring rations for the live stock, we always take into consideration the size of the animal and the ration is figured so much per thousand pounds live weight, therefore, if you have large cows weighing twelve or fifteen hundred pounds, it would take much more food than cows weighing one thousand pounds or less.

I would not wish to go on record as expressing a definite opinion as to how many cows could be wintered on ten acres of cornstalks. The best way is to vary the ration by using clover hay and some grain, and then if you haven't cows enough to consume all the cornstalks fed in this way you could easily purchase more cows, or, if you have too many you can easily dispose of some of them if you care to handle the question in this way.

C. C. L.

IMPROVING GRADE GUERNSEY COWS.

I have a pure-bred Holstein-Friesian bull which I use for my Registered Holstein cows. I also have a number of grade Guernsey cows. Can I breed my Guernsey cows to the Holstein bull, and in that way improve them or will it deplete and degrade the cows and their offspring to breed to this bull?—J. C. T.

So long as you desire to get Holstein cows or high-grade Holsteins, the proper thing, of course, is to breed your grade cows to your pure-bred Holstein bull. It would not matter whether your grade cows with Guernseys or Jerseys or Ayrshires. You would get your ideal of a cow sooner if you would sell your Guernseys and buy grade Holsteins because it will take a few generations to get high-grade Holsteins from Guernsey grades but your idea of the breeding is correct. You must breed these grades to a pure-bred bull and the resultant progeny to a bull of the same breed, that is to a Holstein, and in a few years you will have Holsteins for all intents and purposes.—C. C. L.

BUTTER YIELD OF CREAM.

What per cent ought cream to test that persistently churns fifty per cent butter, well finished?—J. J.

There is not sufficient data given to answer this question accurately. The yield of butter from cream is variable. In ordinary churning one can get a larger yield of butter from the same cream one day than he can another. It is largely a matter of temperature. Ordinarily, it is not safe to make butter that contains more than twenty per cent overrun, which is the water, caseine, salt, etc., incorporated with the butter-fat. The very best butter contains an overrun of about twenty per cent, but one who understands can incorporate more moisture, making the overrun in excess of this. The same applies to caseine also. By a ruling of the internal revenue department, butter that contains sixteen per cent of moisture is declared to be adulterated butter. Ordinarily, you would not incorporate that much moisture, but knowing how to manipulate the cream much more than that can be incorporated in the butter.

RIME OF THE SPECIALIST.

Oh, I was a typical orchard crank—
A specialist, if you please—
And I very nearly broke the bank

A'doctoring up my trees.
I fertilized with this and that,
But still the yield grew less.
If it hadn't been for the family cat,

I'd now be broke, I guess.
For our cat refused to eat
canned milk;

My wife then bought a cow
Which raised a calf—and of
their ilk

I own a dairy now.
Yes, I was a radical orchard
fiend,

And, at first, it made me
sore—
But, thanks to the cat that
wouldn't be weaned

I can pay my bills once
more.
—Justin Nutt, in Orchard
and Farm.

Get Louden Barn Equipment Now at New Low-Level Prices



Louden Barn Equipment is the same high quality that has characterized it for over 50 years—prices, however, have been greatly reduced. Our new prices are based not only on all present savings in manufacturing costs, but we have gone a step further—all probable or possible reductions in labor and material for months to come have been anticipated, and you get the benefit of all these savings.

Shows Daily Profits—Saves Half the Work

Your investment in Louden Equipment brings daily cash

profits because Louden Stalls and Swinging Stanchions give cows real pasture comfort in the barn, a comfort reflected in a fuller milk pail.

No other stanchions can be used with the Louden Built-Up Feed Saving Manger Curb which prevents the waste of so much feed. A Louden Feed Carrier brings the feed for 20 cows at one trip. The Louden Manure Carrier makes barn cleaning an easier, more agreeable job, saves half the time and labor; takes the manure from 10 cows out of the barn at a single trip, dumps it direct into the spreader ready for the field—saves all the liquid manure. Louden Water Bowls automatically supply cows with fresh, even-tempered water regularly day and night—increases milk flow 25% to 40%—prevent spread of disease through the drinking water.

These Two Helpful Books Sent Free

The Louden 224-page Catalog tells all about these labor savers for the barn including Stalls and Stanchions, Water Bowls, Feed and Manure Carriers, Animal Pens, Ventilators, Cupolas, Hay Unloading Tools, Barn and Garage Door Hangers, etc.—"Everything for the Barn."

The Louden Barn Plan Book shows 74 of the most popular barns built during the last 15 years with details of construction and chapters on cement work, silos, ventilation, drainage, and many other facts every prospective barn builder should know.

Profit by Louden Free Barn Plan Service. If you are going to build or remodel a barn let our experts help you. Write us the size and kind of barn you have in mind, number and kind of stock you wish to house and we will send you blueprints and suggestions for a barn that will exactly meet your particular needs—no charge—no obligation. Fill out and mail coupon today.

The Louden Machinery Co.

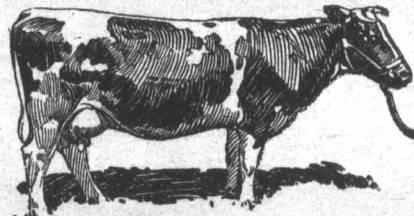
Established 1867

1930 Court St. Fairfield, Iowa

LOUDEN

LABOR SAVING BARN EQUIPMENT

Please send post-paid, without charge or obligation, book checked below: 1920 Louden Barn Plans Catalog I expect to build (remodel) a barn for: cows horses Am interested in Litter Carriers. Stalls, Stanchions..... Water Bowls..... Name..... P. O. State.....



The World Champions

Bella Pontiac, a cow owned by T. A. Barron, of Brantford, Ontario, has just made a new world's record by producing 1240 lbs. of butter-fat in one year.

Mr. Barron also uses a De Laval Cream Separator. He has the world's champion cream producer and the world's champion cream saver—a wonderful combination. Only one man in the world can have the champion cream producer, but every one can have the champion cream saver. It is just as important to save as to produce—get a De Laval and start saving now.

The De Laval Separator Co.
NEW YORK CHICAGO
165 Broadway 29 E. Madison St.

Over 2,500,000 in use the world over.

Sooner or later you will use a
De Laval

Do Your Own Shredding



with a
ROSENTHAL
Corn Husker
and
Shredder

Most economical and satisfactory way of handling your corn crop. No delay, no extra help. Do it in your own spare time. Two sizes for individual use, 6 to 16 h. p. Also make two larger sizes for custom work. Over 25 years in the field. Write for catalog and prices, also useful Souvenir **FREE**. State H. P. of your engine.

Sold on trial. You take no risk.

ROSENTHAL CORN HUSKER CO.
Box 2 Milwaukee, Wis.
Also Makers of Ensilage Cutters and Silo Fillers

WITTE Makes NEW Prices On BIG \$ CUT All Sizes

GASOLINE - KEROSENE
Prices f.o.b. E. C. Carload fgt. to Fbg.
Don't pay wartime prices. Note the big saving NOW
WITTE. Full list and catalog, Free.
2192 Oakland Avenue, KANSAS CITY, MO.
2192 Empire Building, PITTSBURGH, PA.

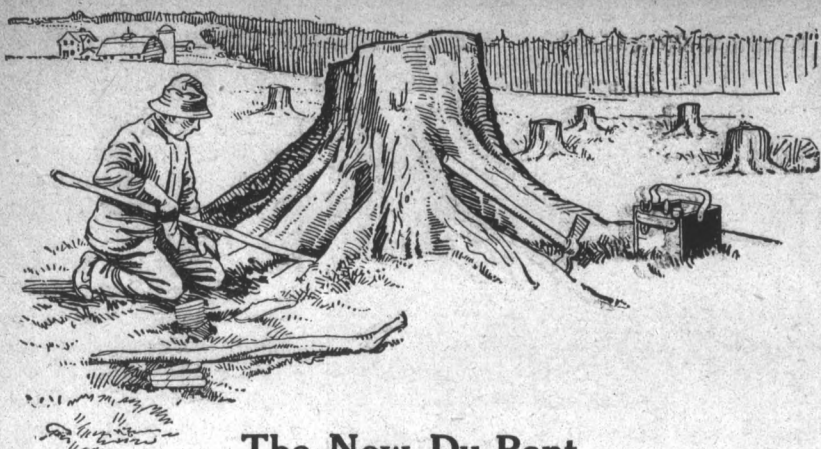
LIGHTNING RODS

Exclusive agency and quick sales to Live Dealers selling "DIDDLE-BLITZEN RODS". Our copper rods 99.9% PURE. Write for agency. Prices are right. L. D. DIDDLE CO., Marshfield, Wis.

Agricultural Lime High calcium hydrated lime in 50 lb. paper bags, in car lots of 20 tons or more. Delivered, price promptly mailed on request.
Northern Lime & Stone Co. Petoskey, Mich

COAL FARM BUREAUS, GRANGES and FARMER ASSOCIATIONS get our low carload mine price on "BLUE RIBBON" soft coal and save money. Agents wanted. THEO. BURT & SONS, Melrose, Ohio

BUY FENCE POSTS direct from forest. Prices delivered. M. M. care of Michigan Farmer



The New Du Pont Low Freezing Dynamite Adds Months to the Land Clearing Season

NO longer need the cold weather call a halt to your land clearing plans. The new Du Pont Low Freezing Dynamite turns the fall and early winter months into an extra land clearing season.



is now a year-round explosive suitable for use in all types of weather where out-door work is practical.

In any weather, for land-clearing, ditching, or tree-planting, you will always find Du Pont Dynamite efficient, economical and uniform in results. It was the first explosive to be developed especially for farm use; it is used more than any other explosive, and with this new improvement Du Pont Dynamite will become more popular with farmers everywhere.

You can buy Du Pont Dynamite at your local hardware or general store. Write for your copy of the "Farmers' Handbook of Explosives."

E. I. DU PONT DE NEMOURS & CO., Inc.

McCormick Bldg.,
Chicago, Ill.

Hartley Bldg.,
Duluth, Minn.

Make Money Cutting Wood



Coal is high in price and may be hard to get. Wood is in demand for fuel. Turn your waste timber into money NOW. Make your income bigger this year than ever before.

EASY TO MAKE MONEY. Selling the saw. The OTTAWA Log Saw makes it easy to cut down trees, saw logs and branches. Does the work of many men. You can saw and sell 100 cords or more a week. Your profits will quickly pay for the machine.

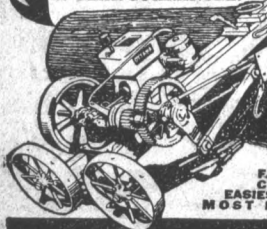
**NOW
Selling at New
Reduced Prices**

FASTEST-CUTTING: 310 strokes a minute—over 50 second. Easiest to move by 3 men. Cheapest to run. The standard by which all log saws are judged.

OTTAWA LOG SAW

Get an Ottawa. Let it pay for itself as you use it.—H. C. Overman.

30 DAYS' TRIAL.
Only Shipped This Way.
10-YEAR GUARANTEE.



**One
Man
Log
Saw**

4 H-P. MOTOR. You need all this power. And stops saw while engine runs. **Power Force Feed** makes the OTTAWA saw the human way. Easiest, Quickest, Safest. **Magneto** included—no batteries ever needed. Wheel mounted; a portable power plant for every day in the year.

CASH, OR EASY TERMS. Quick shipment from a factory branch right near you. **FREE!** Send at once for my big new "Wood Sawing Encyclopedia"—printed in 3 colors. Your name on a post card will do. **H. C. OVERMAN, Gen'l Mgr.**

OTTAWA MANUFACTURING CO.,
1500-A Wood Street, Ottawa, Kansas.

KITSELMAN FENCE

Get it From the Factory Direct. We pay the freight and save you money. Direct from Factory to Farm. Laura Strubbin, Holden, Mo. writes: "The fence ordered of you arrived O. K. I saved \$14.00 on a \$34.00 order. You can't afford to buy fence until you get our Big Free Catalog showing 100 styles and heights of farm and lawn fence, gates, etc. Write today." **KITSELMAN BROS., Dept. 273 Muncie, Indiana.**

FENCE! The CARBO

Tension system of Fencing Solves the fence Problem. Write for Plans. **Carbo Steel Products Co., Morgan Park, Chicago**

Home-grown Natural Leaf Tobacco—Chewing and Smoking—5 lbs. \$1.25; 10 lbs. \$2.50; 20 lbs. \$4.00. **FARMERS UNION, Mayfield, Ky.**

Best Wire Fence On the Market Lowest Price—Direct to User

Not hundreds of styles
Nor millions of miles,
But satisfied smiles
From every customer.

Bond Steel Post Co.,
16 Maumee Street — Adrian, Michigan

P. of H. FLOUR—PURE BRAN
BUY DIRECT IN 20-30 LBS. CANS OR MORE.
Friendly to Organized Farmers.
CONSUMERS MILLING CO., Minneapolis

Latest Agricultural News

INCREASED TRAFFIC IN GRAIN.

FOR the eight weeks ending August 27, the loading of grain and grain products amounted to 465,839 cars as compared with 302,623 cars in the corresponding period of 1920, and 381,736 cars in 1919, according to Railway Age. From January 1 to August 27, this year, 1,486,954 cars were loaded with grain and grain products, as compared with 1,195,485 cars in the corresponding period of 1920 and 1,424,416 cars in 1919.

ORGANIZE COOPERATIVE DAIRY

FARMERS in eastern and northern townships in Muskegon county have organized a new cooperative dairy company and plans now are being made to construct a building, 40x80 feet, in the city of Muskegon. The site has not as yet been selected. The plans for financing the project are nearing completion. Officers of the company are: President, E. E. Pierson, Moorland; vice-president, Frank J. Gates, Laketon; secretary-treasurer, Warren M. Black.—D. L. R.

SENATE TO ACT ON INCOME TAX.

THE senate finance committee completed its draft of the tax revision bill during the recess, and it was ready for submission to congress at the reconvening of the session. A number of important changes have been made by the finance committee.

The maximum surtax on personal incomes was left at thirty-two per cent, effective January 1, 1922. The repeal of the excess profits tax will date from January 1, 1922. The corporation income tax is increased from ten per cent to fifteen per cent, instead of twelve and one-half per cent as in the house bill. Transportation taxes are retained during the next calendar year, but at one-half the present rates. On incomes of married persons not exceeding \$5,000 the exemption is increased from \$2,000 to \$2,500 and the exemption for dependents is raised from \$200 to \$400. Beverage taxes are all reduced to two cents per gallon. The senate finance committee refused to exempt the salary of the President and officers of the judiciary from income tax.

It is estimated that the total revenue that will be raised if the senate tax bill passes in its present form, will not be less than \$3,200,000,000. Senator Penrose, who has the bill in charge predicts that it can be passed in the senate early in October.

GOVERNMENT SAVES ON EXPENSES.

A GRADUAL decrease in government expenditures is reported by Secretary of the Treasury Mellon, the expenses of running the government during July being \$141,096,485 less than for the corresponding time of 1920, not a large reduction as government expenditures go, but a beginning in the right direction.

STATISTICS NECESSARY FOR AGRICULTURAL DEVELOPMENT.

IT is the opinion of Chairman Sydney Anderson, of the Joint Commission of Agricultural Inquiry, that the investigation the commission is conducting would be of little value unless it resulted in the development of a conscious program of future agricultural development. Its aim is constructive rather than destructive. "A program for the future development of agriculture must have for its basis sound, accurate and current agricultural statistics. The statistics now

available are neither sufficiently accurate, comprehensive nor current," says Mr. Anderson. "There should be an expansion of the statistical divisions of the department of agriculture, particularly along lines of the procurement of live stock statistics. Such statistics are essential, not only to an agricultural program, but to the correlation of agriculture with the agencies of manufacture and distribution. With the development of agricultural statistics there should also be a further standardization of agricultural products and containers.

SOME DEVELOPMENTS IN DEPARTMENT OF AGRICULTURE.

SOME interesting developments are noted in the Federal Department of Agriculture. C. W. Pugsley, the new assistant secretary, is in Washington, acquainting himself with the duties of his new position. He takes charge of his office officially on October 1. Dr. George F. Warren, consulting economist in the department, and William F. Callander, assistant to the chief of the Bureau of Markets, have been selected to visit European countries for the purpose of developing methods and sources for securing crop and market information and to arrange for sending it more promptly to this country. It is planned to develop a system whereby the department will be able to publish world crop forecasts.

CLOVERLAND GRANGE TOURS.

OFFICERS of the State and National Grange, with certain local Grange officers, were touring the upper peninsula late in August in the interest of this organization. Meetings were held at Sault Ste. Marie, Powers, Iron River, Baraga and Marquette and at one or two other points. The meeting at Marquette, September 2, closed the series. It indicates how extended is the area of Michigan when it is stated that Master A. B. Cook and his party had traveled 2,500 miles when they reached Marquette on their tour of speech-making in both peninsulas. I seemed to catch a note of disappointment in the attendance at these meetings, especially the later ones, from Mr. Cook and others from south of the Straits, but it should be understood that conditions here and in southern Michigan differ radically which would make a small attendance at some of these meetings inevitable. Marquette county is not a snug little farming community like Clinton or Berrien counties, for example. It covers an area of 1,870 square miles—the largest county in the state; and it would require a journey of forty or fifty miles—even more—for some of our farmers to attend from this county, alone.—L. A. C.

A NEW FISH BOOKLET.

THE Upper Peninsula Development Bureau, with offices at Marquette, has issued for free distribution a neat little pamphlet, "Where to Fish in Cloverland." The material was gathered by an extensive correspondence with well-informed local persons in all parts of the district, and was edited by Dr. John Lowe, professor of biology in the Northern State Normal School, and a fish expert formerly connected with the Wisconsin Conservation Commission. In the summer our streams are much sought by fishermen, both local and immigrant, and no doubt this little booklet will be much appreciated, especially by such as are less well informed on local conditions. In a brief paragraph is given the name and location of a stream and a statement regarding its fish resources.—L. A. C.

FALL WORK IN THE ORCHARD.

THE practice of plant sanitation to prevent parasitic diseases and rotting of farm produce, if heeded in time will save many of the trees and keep vegetables from rotting.

The raspberry patch should be "canned" to remove all dead and badly diseased stalks. This is more or less of a sanitary measure and it gives the sound canes a chance.

In fall pruning of apple orchards the farmer has a chance to rid the trees of cankered limbs. In deciding what cuts are to be made, the vigor and freedom from disease of a limb should be borne in mind.

Any pruning cut exposes the heart wood of the tree and opens the way for heart rot fungi. As soon as the cut surfaces are dry they should be painted with a white lead paste (not zinc white). Common barn paint or ready-mixed house paint has small protecting value for pruned surfaces. The pruning cut should be made flush with the main branch. The healing of wounds comes about from a "callus" growth from the cambium. If stubs are left the projecting parts prevent the healing.

Hold-over cankers of fire blight can be located by the blighted twigs on which the leaves have withered and dried. The canker is at the base of the twig. These should be located and removed. Thorough winter eradication coupled with vigilance in the early part of the growing season will control fire blight.

Ventilation is necessary in the storage cellar if disastrous rotting of the produce is to be avoided. Vegetable pits should be provided with a straw floor and a straw or crate chimney. Black heart of potatoes and black specking of cabbage are due to lack of oxygen in the storage room.

A cleanup of all trash from the preceding crop should take place promptly in the garden. Many fungi survive the winter in such trash. Sanitation is the gardener's greatest protection.

In the field sanitation is obtained by crop rotation. Those who followed corn with corn, beets with beets, or beans with beans, have this year found that disease has been one important factor in their farming. Aside from its relations to soil fertility, crop rotation is necessary to avoid disease intensification.

IMPROVED FREIGHT SERVICE FOR FRUIT SHIPPERS.

WITH a view to improving the service to fruit growers in western Michigan, particularly along the Pere Marquette lines in Ottawa, Allegan and Van Buren counties, the Fruit Growers' Express Company, which supplies this railroad with most of its refrigerator cars during the fruit marketing season, will establish a new icing plant at Saugatuck next season. Heretofore the cars have been iced either in Grand Rapids or Holland, causing some delay in furnishing cars at critical periods of the season. The proposed station is expected to reduce damage claims to a certain extent.

GRAPE PRICES DISAPPOINTING.

THE grape growers in western and southwestern Michigan have been somewhat disappointed this season in prices they have received for their fruit. With the crop less than fifty per cent normal many of them had expected to receive around \$150 a ton, basing their expectations upon prices received last fall from the largest crop they ever produced. Instead, prices on the average were slightly under those of last season. Returns from shipments still are incomplete, but from those now available it appears the growers will average \$100 per ton.



KODAK An authentic, complete photographic record of livestock, farm equipment, crops—that's business.

Pictures like the one reproduced above—and every home abounds in such opportunities—that's pleasure.

Kodak does double duty on the farm.

Ask your dealer or write us for free catalogue of Kodaks and Brownies.

Eastman Kodak Company, Rochester, N. Y., *The Kodak City*

FertilEarth
Agricultural Gypsum
(LAND PLASTER)
"Makes Crops Grow"

TRADE MARK

**Feeds Plants
Without
Robbing
Soil**

WHILE *FertilEarth* is feeding plants directly, with sulphur and lime—the two foods which make them grow bigger, healthier and more able to resist disease and parasites—*FertilEarth* is also causing those plants to put more nitrogen into the soil and at the same time causing manure to retain more of its food value in barn and manure pile and yet release this valuable food when the manure is spread on the ground. *FertilEarth* actually causes plants to enrich the ground as they grow. Test this yourself on a small plot.

Write for booklet. *FertilEarth* is sold everywhere.

GRAND RAPIDS PLASTER COMPANY

Established in 1856 Manufacturers of

FertilEarth
Agricultural Gypsum
"Makes Crops Grow"

Climax Wood Mortar
"For Plastering
Fine Homes"

Hercules Wall Plaster
"For Plastering Larger
Buildings"

\$45.00 PUTS THIS NEW MILL ON YOUR OLD TOWER

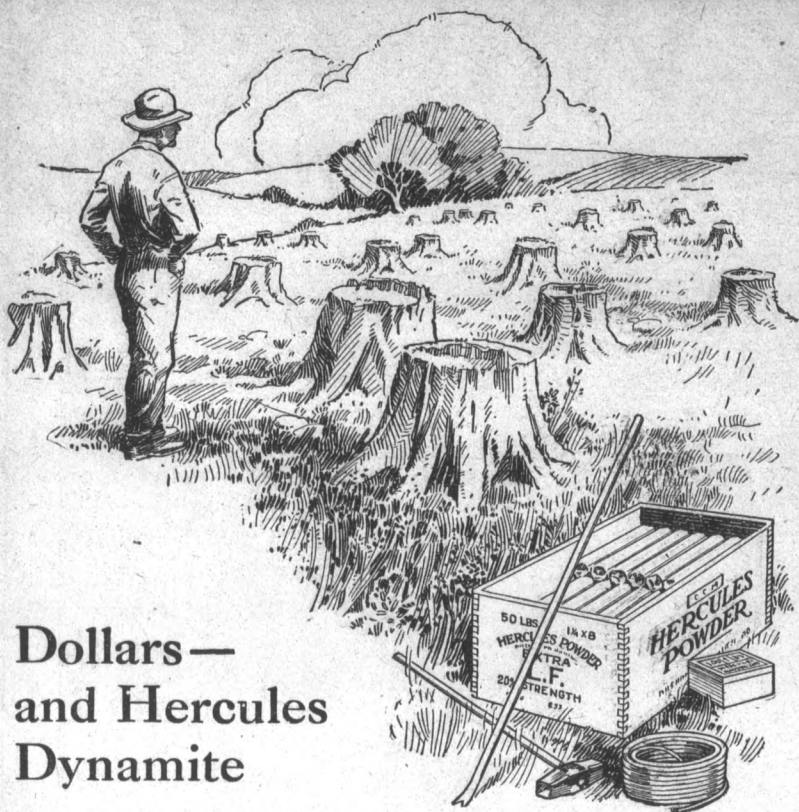
ALBION

Albion steel and wood mills are quiet and powerful. One-third the working parts of any other mill. Only main Pitman bearing subject to wear. This is oilless, and easily replaceable. Govers by dependable weight without springs. Fits any 4-post steel tower. Why not shorten your chore hours now with a good Windmill? This is your chance—F. O. B. Albion. Erect it yourself. Ask your dealer, or write direct to Union Steel Products Co. Ltd. No. 523 N. Berrien Street, ALBION, MICHIGAN, U. S. A.

PAINT

IN THE FALL FOR WEAR AND ECONOMY Paint prices lower than for years - quality better - because of ability to secure raw materials in quantity at greatly reduced prices. We make WEAR PLUS dependable Paints and Varnishes to meet every need and sell direct to you. Save the difference. Beautify your Property. Increase its value. It will pay you to write for unique paint sample to test, prices, color card and 32 p. Book. "The Magic Story of Paint", sent FREE. **C. E. LIVELY & CO.**, 416 United Bank Bldg. Cincinnati, Ohio.

1000 Ferrets they hustle RATS and rabbits. N. A. KNAPP & SON, R. 2, New London, Ohio
Trained American Fox Hounds Rabbit and Skunk dogs all ages. Send stamp. W. E. LECKY, Holmesville, Ohio



Dollars— and Hercules Dynamite

A box of Hercules 20% Low Freezing Extra Dynamite, Hercules Blasting Caps and Fuse and you have the best and most economical material with which to clear your land of stumps. For doing the job right—blasting them out *roots and all*, broken small enough for easy handling—you can't beat Hercules Dynamite.

Think what it would cost you in time and money to grub out stumps in the old way—and compare that with the speed and economy of using Hercules 20% and Hercules accessories.



HERCULES POWDER CO.

910 Market Street

Wilmington

Delaware



Send for
this book

Do you know what constitutes a strong constitution?

To have sound, healthy nerves, completely under control, digestive organs that are capable of absorbing a hearty meal, means you have a strong constitution! Your general attitude is one of optimism and energy.

But an irritable disposition, frequent attacks of indigestion, and a languid depression, indicate your system is not in correct working order.

Probably you are not eating the proper food. Probably the nutritious elements are not being supplied to your system in the proper way.

Grape-Nuts is the wholesome, delicious cereal that promotes normal digestion, absorption and elimination, whereby nourishment is accomplished without auto-intoxication. A mixture of energy-giving wheat and malted barley comprise the chief elements of Grape-Nuts. A dish at breakfast or lunch is an excellent, wholesome rule to follow.

You can order Grape-Nuts at any and every hotel, restaurant, and lunch room; on dining cars, on lake boats and steamers; in every good grocery, large and small, in every city, town or village in North America.

Grape-Nuts—the Body Builder
“There's a Reason”

Agricultural Limestone

BOAT AND RAIL DELIVERY
LEATHAM D. SMITH STONE CO.,
Home office and Quarries, Sturgeon Bay, Wis.
Docks—Muskegon and South Haven, Mich.
Michigan Representative
John Walsma, Grand Haven, Mich.

Saw Mill Machinery Portable Mills for Farm
er's use. Make your own
lumber. Send for new Catalog. **HILL-CURTIS CO.,**
1506 No. Pitcher St., Kalamazoo, Mich.

9 CORDS IN 10 HOURS



BY ONE MAN. IT'S KING OF THE WOODS. Saves money and
backache. Send for FREE catalog No. B44 showing low
price and latest improvements. First order gets agency.
Folding Sawing Machine Co., 161 West Harrison St., Chicago, Ill.

Our Service Department

TELEPHONE WIRES ON HIGH- WAYS.

A state road is being built past my farm, and in order to complete the grade they have ordered the telephone company to move back their poles. A row of fine maples stands back of the four-rod line of stakes on my property. Can the company cut my trees to accommodate their wires?—C. W.

Michigan Compiled Laws (1915) Sec. 4469, provides that in erecting and maintaining their wires the telegraph and telephone companies shall not cut down, injure, or deface any tree or shrub planted along the margin of the highway; and if such injury is done the company doing the injury is liable in damages.—J. R. R.

TELEPHONE WIRE ON VACATED HIGHWAYS.

In building a trunk line the commissioner straightened the road in front of my farm which leaves telephone poles on my place. I have asked them to remove the poles, but they do not do it. What can I do?—J. M.

Our court has held that poles set in the highway for telephone or telegraph lines are not an increased burden on the abutting owner, and therefore no payment need be made to him, and his consent is not necessary. Therefore, it is likely that this wire was put up without any grant being obtained from the owner of the adjoining land. In this case the rights of the telephone company are at an end when the road is vacated, and the abutting owner may, if he will take the risk, peaceably remove them, or he may take the safer course of suing in ejectment or by summary proceedings for possession.—J. R. R.

CORPORATE LIABILITY FOR TORTS.

Can I force the telephone company to pay damage for property destroyed through either their or their linemen's fault?—R. L.

Corporations being impersonal act only through their agents and servants, and are liable for all torts committed by either in doing acts about the company's business. However, after judgment is obtained nothing can be sold on execution that is used in the public service. If the company refuses to pay a judgment the only recourse would be to have a receiver appointed.—J. R. R.

FORECLOSURE.

I have a mortgage on a farm which was recorded. It was due in March of this year, but the party has not paid. What would be the outcome if I allowed it to go until next March, or could I foreclose it before then?—J. G.

The mortgage may be foreclosed at any time within ten years from the time it is due. But it will take fifteen months to foreclose either by advertisement or in chancery, from the time the foreclosure is begun.—J. R. R.

WHEN TO APPLY LIME.

Have a seed-bed ready to sow to alfalfa. Want to cover it with marl. Should I do this before or after seeding? Should I prepare now for spring seeding?—A. L.

The best time to apply marl, which, of course, is nothing but lime, would be while you are preparing the seed-bed and work it into the surface soil. If it is too late for that, then, of course, it can be broadcasted on top after the seeding, but you must understand that the lime must be mixed with the soil in order to correct the

acidity, as the young plants need this correction of the soil at the very first. If you spread marl on after the alfalfa is sown, you have got to wait for a rain to dissolve it and carry it down to the roots of the alfalfa, but if you had applied the marl while you were preparing the land, there would be moisture enough in the land so that the chemical action would begin at once neutralizing the acidity in the soil.

A nurse crop of oats with fall seeding would be a detriment rather than a benefit to the alfalfa. We use the nurse crop in the spring to prevent the growth of weeds. The weeds would take much more moisture from the soil than the nurse crop of oats or barley, and they also shade the young plants somewhat from the hot sun. However, this fall there would be no growth of weeds and the alfalfa would have a better chance without any nurse crop. I would prefer to have the land fall plowed for alfalfa next spring, because then you only have to loosen the surface soil to prepare the seed-bed. The sub-soil has become settled during the winter and is in much better condition for the young plants than as though you would plow it in the spring. Spring plowed soil is looser to the depth of the plow furrow and is not as good a seed-bed as a more firm sub-soil.—C. C. L.

RIGHT OF FLOWAGE.

I have a farm in which there is a natural drain onto another man's farm. For over fifty years the water has run from my farm onto this man's and then into a creek which runs across his place. This was quite a stream for many years and was bridged over at the road which separates the two farms. As time went on, this stream became smaller and it was finally cut down to a sewer tile which was placed under the road and which took the place of the bridge which was formerly there. Still later, the pathmaster or someone else drew dirt to raise this low place in the road and the dirt falling off the side has stopped the tile so that the road now acts as a dam and in the spring it makes the water back up onto my fields so that no spring crop can be put in. The man on the other side of the road claims that I have no right to open this tile as the water would go onto him. I have tile to the road and he has tile on his side across one field, but the pathmaster has plugged up the tile under the road so that no water can cross. Can I open the tile?—F. E. W.

A right of flowage has been acquired in this case by use if it did not exist before, and for the breach of this right there is a choice of three remedies. The party may enter and remove the nuisance himself if he can do so without a breach of the peace; but he must not interfere with travel on the road. He may sue for damages, which does not remove the evil; or he may sue for removal of the obstruction, by mandamus against the highway commissioner.—J. R. R.

ANOTHER BOOST FOR MILK.

IN an address before the American Electrotherapeutic Association at their session in Washington, Prof. E. V. McCollum, of Johns Hopkins University, told the members that the great national dietary sin was the menu consisting of “white bread, muscle meats and potatoes.” The physical health of America is rapidly deteriorating as a result of this diet, according to Dr. McCollum. As a cure for our dietetic sin, he urged that each individual consume at least a quart of milk every day, and twice daily two salad dishes of green vegetables and fruits.

Montgomery Ward & Co.



**30 Million Dollars
Worth of Merchandise
Bought at the New Low
Prices for this Book**

THIS new Fall Catalogue is filled with new merchandise bought at the new low prices—and the saving can be yours.

We have been buying, and are now buying for cash, all kinds of reliable merchandise at the lowest prices of the year. And so this big, new book brings to you the lowest prices, the absolutely right prices on everything you buy.

**Write Today for
Your FREE Copy of
WARD'S Complete
New Fall Catalogue**

One copy of this big, complete catalogue is yours—FREE. You need only fill in the coupon below, or write us a post card—and your copy will be sent you by mail, free, and without obligation.

This Catalogue in your home gives you a standard for price comparison. It quotes the new prices, the lowest prices on everything needed for the Home, the Farm, and every member of the Family.

No matter what you buy or where you buy, you should first know Ward's price, based on the new low cost of raw materials, the new low costs of production.

Saving money today is a matter of knowing how little you should pay. Write for your copy of this Catalogue and at least learn before you buy, the price to pay.

—WARD'S—

**The Oldest Mail Order House
Is Today the Most Progressive**

Every page shows our purpose to give you always better and better merchandise, lower and lower prices, and more prompt and more accurate service.

As you look through your copy of Ward's Catalogue you will find that every page breathes the spirit of Service to You, of Saving for You.

**Everything for
The Home, The Farm, and The Family**

Use the index to your Catalogue. You will be surprised to find how completely all your needs can be filled from this big book.

There are the latest New York Fashions for Women, New York Styles selected in New York; everything in Men's and Children's Wear; all your household needs; almost everything you buy at the lowest prices of the year.

MONTGOMERY WARD & CO.

Chicago Fort Worth Kansas City St. Paul Portland, Ore.

To MONTGOMERY WARD & CO., Dept. H-37
CHICAGO, FORT WORTH, KANSAS CITY, ST. PAUL, PORTLAND, ORE.
(Mail coupon to the house nearest you)

Please mail me my FREE copy of Ward's New Catalogue and Buyers' Guide No. 95.

Name

Address



\$69⁹⁵

Quick Shipment Direct to You

"Look! See How Much We Can Save on a Pipeless Furnace"

Save, as thousands of others have, by getting your Pipeless Furnace the "Kalamazoo Direct To You" way, at factory prices. Save again in simple, economical installation.

Once installed, your saving continues as long as you own a *Kalamazoo Pipeless Furnace*—saving in fuel bills—in the trouble and work of putting up and taking down stoves—in the wear and tear of stoves on your rugs—in the work of cleaning the muss up around stoves.

Your home is completely heated—every room—with warm, moist air, through *one register*. You can use your entire home in winter the same as summer. You have heat whenever you want it—in late spring—on chilly, rainy days—in early fall. You solve your heating problem completely by moving the heating plant to the basement, where it belongs. And you have

Save Money
on These
Kalamazoo Articles
Stoves and Ranges
Shoes
Indoor Closets
Paint
Roofing
Sewing Machines
Washing Machines
Aluminum Ware
Kitchen Cabinets
Fencing
Congoleum Rugs
Cream Separators
Dishes
Phonographs
Furniture
and other
products

A Heating Plant for the Entire Home At the Cost of a Good Stove

A *Kalamazoo Pipeless Furnace* heats *all* your house—on less fuel than your stoves use. And the purchase price is less than the cost of one good stove. You can install it yourself in a couple of hours or so without any expert help. There's no sawing nor carpentry work, except for one hot air register and cold air flues. You needn't have a basement under your entire house to install it—a *Kalamazoo Pipeless Furnace* goes in a very small space. It's not only easily installed—it's easily operated. Any member of the household can run it.

Write for a Kalamazoo Catalog

and learn more about this heating plant that saves hundreds of thousands of dollars every year for its owners. Decide now to have a warm house this winter in the coldest weather and learn what a great saving you make by getting your *Pipeless Furnace Direct From the Factory*. Learn what satisfaction it is to deal with the makers. Read our *satisfaction or money-back guarantee*.

Kalamazoo
Stove Co.
Manufacturers
Kalamazoo, Michigan

Gentlemen: Please send
me your New Big Catalog
No. 909.

Mail the Coupon Today

Get this manufacturer's price book and see how much you can save on a real top-notch quality furnace. Cash or easy payments. Quick shipment—no waiting. Ask for Catalog No. 909.

Kalamazoo Stove

Company

Manufacturers

Kalamazoo,

Mich.



"A Kalamazoo Trade Mark Registered Direct to You"

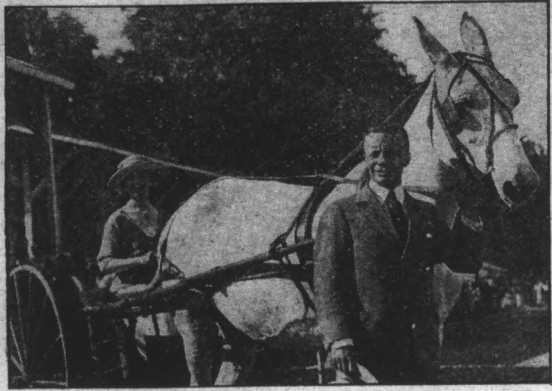
Name.....

Address.....

City.....State.....

I am
interested in.....

WORLD EVENTS IN PICTURES



Mr. and Mrs. Theodore Roosevelt, Jr., participate in races at County Fair.



Hudson Maxim, famous inventor, as King Neptune.



Auctioning off jobless men in Boston Commons. No bid was offered for this man.



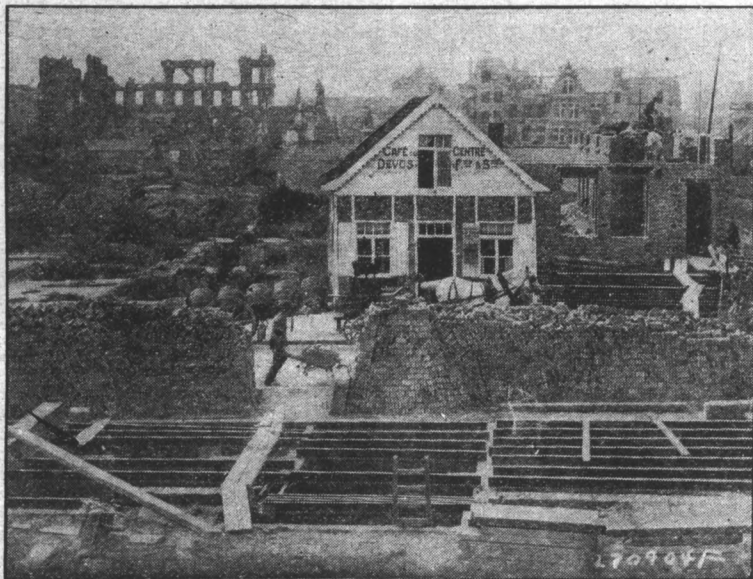
A great military burial is given hero who died in place of the notorious slacker, Bergdoll.



King of Denmark greets the school children at Good Hope, Greenland, a Danish possession.



Miss Margaret Gorman wins \$5,000 beauty prize at Atlantic City.



The Belgians are speeding reconstruction in what was once Ypres in the battlefields of Flanders.



A starving Armenian boy who needs our help.



Meal time in Armenia. Refugees awaiting an American dinner served them by the Near East Relief.



These Armenian children have been made both happy and healthy through food and assistance given by America.

THE BLIND MAN'S EYES

By William MacHarg and Edwin Balmer

Copyright by Little Brown & Company

A Summary of What Has Already Been Told

Gabriel Warden, capitalist and railroad director, mysteriously comes to death in his automobile. Connery, special conductor, gets orders to take charge of regular train and to obey requests of a passenger who will identify himself by a special card. Five passengers get on: Mr. Dorne and his daughter Harriet, a man named Avery, an Englishman, and a young man calling himself Philip D. Eaton. Mr. Dorne makes himself known to Connery by the card referred to, and Miss Dorne becomes acquainted with Mr. Eaton.

In the card-room of the observation car, playing and conversation still went on for a time; then it diminished as one by one the passengers went away to bed. Connery, looking into this car, found it empty and the porter cleaning up; he slowly passed on forward through the train, stopping momentarily in the rear Pullman opposite the berth of the passenger whom President Jarvis had commended to his care. His scrutiny of the car told him all was correct here; the even breathing within the berth assured him the passenger slept.

Connery went on through to the next car and paused again outside the berth occupied by Eaton. He had watched Eaton all day with results that still he was debating with himself; he had found in a newspaper the description of the man who had waited at Warden's, and he reread it, comparing it with Eaton. It perfectly confirmed Connery's first impression; but the more Connery had seen of Eaton, and the more he had thought over him during the day, the more the conductor had become satisfied that either Eaton was not the man described or, if he was, there was no harm to come from it. After all, was not all that could be said against Eaton—if he was the man—simply that he had not appeared to state why Warden was befriending him? Was it not possible that he was serving Warden in some way by not appearing? Certainly Mr. Dorne, who was the man most on the train to be considered, had satisfied himself that Eaton was fit for an acquaintance; Connery had seen what was almost a friendship, apparently, spring up between Eaton and Dorne's daughter during the day.

The conductor went on, his shoulders brushing the buttoned curtains on both sides of the narrow aisle. Except for the presence of the passenger in the rear sleeper, this inspection was to the conductor the uttermost of the commonplace; in its monotonous familiarity he had never felt any strangeness in this abrupt and intimate bringing together of people who never had seen one another before, who after these few days of travel together, might probably never see one another again, but who now slept separated from one another and from the persons passing through the cars by no greater protection than these curtains designed only to shield them from the light and from each other's eyes. He felt no strangeness in this now. He merely assured himself by his scrutiny that within his train all was right. Outside—

Connery was not so sure of that; rather, he had been becoming more certain hour by hour all through the evening, that they were going to have great difficulty in getting the train through. Though he knew by Presi-

dent Jarvis' note that the officials of the road must be watching the progress of this especial train with particular interest, he had received no train-orders from the west for several hours. His inquiry at the last stop had told him the reason for this; the telegraph wires to the west had gone down. To the east, communication was still open, but how long it would remain so he could not guess. Here in the deep heart of the great mountains—they had passed the Idaho boundary line into Montana—they were getting the full effect of the storm; their progress, increasingly slow, was broken by stops which were becoming more frequent and longer as they struggled on. As now they fought their way slower and slower up a grade, and barely topping it, descended the opposite slope at greater speed as the momentum of the train was added to the engine-power, Connery's mind went back to the second sleeper with its single passenger, and he spoke to the Pullman conductor, who nodded and went toward that car. The weather had prevented the expected increase of their number of passengers at Spokane; only a few had got aboard there; there were worse grades ahead, in climbing which every pound of weight would count; so Connery—in the absence of orders and with Jarvis' note in his pocket—had resolved to drop the second sleeper.

At Fracraft—the station where he was to exchange the ordinary plow which so far had sufficed, and couple on the "rotary" to fight the mountain drifts ahead—he swung himself down from the train, looked in at the telegraph office and then went forward to the two giant locomotives, on whose sweating, monstrous backs the snow, suddenly visible in the haze of their lights, melted as it fell. He waited on the station platform while the second sleeper was cut out and the train made up again. Then, as they started, he swung aboard and in the brightly lighted men's compartment of the first Pullman checked up his report-sheets with a stub of pencil. They had stopped again, he noticed; now they were climbing a grade, more easily because of the decrease of weight; now a trestle rumbled under the wheels, telling him just where they were. Next was

the powerful, steady push against opposition—the rotary was cutting its way through—a drift.

Again they stopped—once more went on. Connery, having put his papers into his pocket, dozed, awoke, dozed again. The snow was certainly heavy, and the storm had piled it up across the cuts in great drifts which kept the rotary struggling almost constantly now. The progress of the train halted again and again; several times it backed, charged forward again—only to stop, back and charge again and then go on. But this did not disturb Connery. Then something went wrong.

All at once he found himself, by a trainman's instinctive and automatic action, upon his feet; for the shock had been so slight as barely to be felt, far too slight certainly to have awakened any of the sleeping passengers in their berths. He went to the door of the car, lifted the platform step, threw open the door of the vestibule and hanging by one hand to the rail, swung himself out from the side of the car to look ahead. He saw the forward one of the two locomotives wrapped in clouds of steam, and men arm-deep in snow wallowing forward to rotary still further to the front, and the sight confirmed fully his apprehension that this halt was more important and likely to last much longer than those that had gone before.

CHAPTER V. Are You Hillward?

IT is the wonder of the moment of first awakening that one—however tried or troubled he may be when complete recollection returns—may find, at first, rehearsal of only what is pleasant in his mind. Eaton, waking and stretching himself luxuriously in his berth in the reverie halfway between sleep and full consciousness, found himself supremely happy. His feelings, before recollection came to check them, reminded him only that he had been made an acquaintance, almost a friend, the day before, by a wonderful, inspiring, beautiful girl. Then suddenly, into his clearing memory crushed and crowded the reason for his being where he was. By an instinctive jerk of his shoulders, almost a shudder, he drew the sheet and blanket closer about him; the smile

was gone from his lips; he lay still, staring upward at the berth above his head and listening to the noises in the car.

The bell in the washroom at the end of the car was ringing violently, and some one was reinforcing his ring with a stentorian call for "Porter! Porter!"

Eaton realized that it was very cold in his berth, also that the train, which was standing still, had been in that motionless condition for some time. He threw up the window curtain as he appreciated that and, looking out, found that he faced a great unbroken bank of glistening white snow as high as the top of the car at this point and rising even higher ahead. He listened, therefore, while the Englishman—for the voice calling to the porter was his—extracted all available information from the negro.

"Porter!" Standish called again.

"Yessuh!"

"Close my window and be quick about it!"

"It's closed, suh."

"Closed?"

"Yessuh; I shut it en-durin' the night."

"Closed!" The voice behind the curtains iterated skeptically; there was a pause during which, probably, there was limited exploration. "I say, then, how cold is it outside?"

"Ten below this morning, suh."

"What, what? Where are we?"

"Between Fracraft and Simons, suh."

"Yet?"

"Yessuh, yit!"

"Hasn't your silly train moved since four o'clock?"

"Moved? No, suh. Not mo'n a yahd or two nohow, suh, and I reckon we backed them up again."

"That foolish snow still?"

"Yessuh; and snow some more, suh."

"But haven't we the plow still ahead?"

"Oh, yessuh; the plow's ahaid. We still got it; but that's all, suh. It ain't doin' much; it's busted."

"Eh—what?"

"Yessuh—busted! There was right smart of a slide across the track, and the crew, I understands, diagnosed it jus' fo' a snowbank and done bucked right into it. But they was rock in this; suh; we's layin' right below a hill; and that rock jus' busted that rotary like a Belgium shell hit it. Yessuh—pieces of that rotary essentially scattered themselves in four directions besides backwards and fo'wards. We ain't done much traveling' since then."

"Ah! But the restaurant car's still attached?"

"De restaur—oh, yessuh: We carries the diner through—from the coast to Chicago."

"H'm! Ten below! Porter, is that

AL ACRES—Slim Feels Considerably "On the Hog" When His Dreams are so Rudely Interrupted.

—By Frank R. Leet



wash-compartment hot? And are they serving breakfast yet?"

"Yessuh; yessuh!"

The Briton, from behind his curtains, continued; but Eaton no longer paid attention.

"Snowed in and stopped since four!" The realization startled him with the necessity of taking it into account in his plans. He jerked himself up in his berth and began pulling his clothes down from the hooks; then, as abruptly, he stopped dressing and sat absorbed in thought. Finally he parted the curtains and looked out into the aisle.

The Englishman, having elicited all he desired, or could draw, from the porter, now bulged through his curtains and stood in the aisle, unabashed, in gaudy pajamas and slippers; while he methodically bundled his clothes under his arm; then, still garbed only in pajamas, he paraded majestically to the washroom. The curtains over the births at the other end of the car also bulged and emitted the two dark-haired girls. They were completely kimonaed over any temporary deficiency of attire and skipped to the drawing-room inhabited by their parents. The drawing-room door instantly opened at Amy's knock, admitted the girls and shut again. Section Seven gave to the aisle the reddish-haired D. S. He carried coat, collar, hairbrushes and shaving case and went to join the Briton in the men's washroom.

There was now no one else in the main part of the car; and no berths other than those already accounted for had been made up. Yet Eaton still delayed; his first impulse to get up and dress had been lost in the intensity of the thought in which he was engaged. He had let himself sink back against the pillows, while he stared, unseeing, at the solid bank of snow beside the car, when the door of the further end of the coach opened and Conductor Connery entered, calling a name.

"Mr. Hillward! Mr. Lawrence Hillward! Telegram for Mr. Hillward!"

Eaton started at the first call of the name; he sat up and faced about.

"Mr. Hillward! Telegram for Mr. Lawrence Hillward!"

The conductor was opposite Section Three; Eaton now waited tensely and delayed until the conductor was past; then putting his head out of his curtains and assuring himself that the car was otherwise empty as when he had seen it last, he hailed the conductor as he was going through the door.

"What name? Who is the wire for?"

"Mr. Lawrence Hillward."

"Oh, thank you; then that's mine." He put his hand out between the curtains to take the yellow envelope.

Connery held back. "I thought your name was Eaton."

"It is. Mr. Hillward—Lawrence Hillward—is an associate of mine who expected to make this trip with me but could not. So I should have telegrams or other communications addressed to him. Is there anything to sign?"

"No, sir—train delivery. It's not necessary."

Eaton drew his curtains close again and ripped the envelope open; but before reading the message, he observed with alarm that his pajama jacket had opened across the chest, and a small round scar, such as that left by a high-powered bullet penetrating, was exposed. He gasped almost audibly, realizing this, and clapped his hand to his chest and buttoned his jacket. The message—nine words without signature—lay before him:

Thicket knot youngster omniscient issue ofliage lecture tragic instigation. It was some code which Eaton recognized but could not decipher at once. It was of concern, but at that instant, less of concern than to know whether his jacket had been open and his chest exposed when he took the message. The conductor was still standing in the aisle.

(Continued next week).

Directions for Lubricating Motor and Transmission

The lubrication is the most important thing in the care of a tractor. Always remember that oil is cheaper than repairs. Be sure that no dirt gets mixed with the oil.

The importance of good, clean lubrication cannot be over-estimated. Because we realize what good lubrication means, we feel that this item in the care and operation of the tractor cannot be dwelt on at too great length, not be too emphatically expressed.

The oil and grease for the tractor, can and must, be kept clean. Store in a sheltered place where flying dust will not settle all over the oil. It must not be allowed to get into the crank case of the working parts of the tractor. Use a clean pail for transferring oil from the container to the tractor, and do not carry the oil across a field or anywhere in the open when wind is blowing. Use a covered pail or a can with a stopper. Steel drums being dust, water, and sun-proof, make good storage.

CHAPTER VI

Lubrication

There is nothing so vital in the operation of any machinery as lubrication and tractors are effected more severely than any other machinery if the quality of oil or proper manner in oiling are lacking. The life of the machine depends more absolutely on lubrication than any other factor.

The purpose of a lubricant is to reduce friction. This is accomplished by the oil forming a film which actually keeps them from this film of oil is maintained the friction of oil sliding upon another.

Certain specific properties of the oil are required. A heavier bodied oil than a light one is required in the former bearing the pressure shaft would come in contact with the bearing surface and float on coherent layers.

There are other properties that determine the uses, such as their ability to wit. The gas engine is the most difficult to lubricate. The cylinders presents the greatest difficulty. The oil must possess several properties:

1. It must possess good lubricating properties.
2. It must form a film that will eliminate friction, scoring of cylinders and other parts.
3. It must form a seal between pistons and the escape of gases past the piston during strokes.
4. It must withstand a high temperature necessary to accomplish the above.
5. It must also possess sufficient viscosity to flow through the oiling system and not leave a residue.
6. It must withstand this service without undue residue on the cylinder walls, or in the crankcase.

The tractor engine requires greater care both in the quality of the oil and manner of working at nearly full load continually under pressure, explosion pressure and temperature than in automobile motors.

TEXACO Motor Oil

The uniform oil that keeps your motor active. It is a fine, lasting oil that completely retains its lubricating properties despite engine heat. It so perfectly seals the clearance between piston and cylinder that no gasoline can leak into the crankcase. Thus full compression is secured, and every last ounce of power used that the gas has to give. Be certain to get the can with the red star and green T.

All down the line

YOU'LL find tractor manufacturers giving special emphasis to the question of correct lubrication. They know unless the tractor receives proper care and the right oil, it will not do the work.

Texaco Tractoil is made specially for tractor engine lubrication. It has the correct body—heavier than motor oil, it seals compression perfectly, it withstands the high temperature—that's where many oils fail, and it does not deposit hard carbon in the cylinders.

When you use Texaco Tractoil you can be assured that the question of engine lubrication is properly taken care of—that's one big problem off your mind.

Texaco Tractoil comes in three grades, "B", "C" and "D"; your dealer will tell you which to use. You can get it in 33- or 55-gallon steel drums, wooden barrels and half barrels, or in 5-gallon sealed cans.

THE TEXAS COMPANY

Petroleum and its Products

General Offices: Houston, Texas. Offices in Principal Cities.

TEXACO TRACTOIL



One oiling a year

provides ample lubrication for Model 12 STAR WINDMILLS

No-Oil-Em Bearings save many trips up the tower, insure positive lubrication, and prevent extravagant use of oil. Ask the Star Windmill dealer in your community to show you one of the No-Oil-Em Bearings.

Catalogue No. 95 sent on request.

FLINT & WALLING MFG. CO.
Department C Kendallville, Indiana

HOOSIER Water Service
Provides an independent supply of water for farm homes. Easy to install—simple and economical to maintain. Write for Bulletin F.

LET US TAN YOUR HIDE.

Horse or Cow hide, Calf or other skins with hair or fur on, and make them into coats (for men and women), robes, rugs or gloves when so ordered, or we can make your hides into Oak Tanned Harness or Slaughter Sole Leather; your calfskins into Shoe Leather; colors Gun Metal, Mahogany Russet or lighter shade. Your goods will cost you less than to buy them and be worth more.

Our illustrated catalog gives a lot of information. It tells how to take off and care for hides; how and when we pay the freight both ways; about our safe dyeing process on cow and horse hide, calf and other skins; about the fur goods and game trophies we sell, taxidermy, etc.

Our Fashion Book, which heretofore has been a separate affair, has been incorporated in and made a part of our regular catalogue. It has Fashion plates of muffs, neckwear and other fine fur garments; also remodeling and repairing, together with prices and estimates. In ordering catalog, write name and address plain.

The Crosby Frisian Fur Company,
571 Lyell Ave., Rochester, N. Y.



Cheer Up!

TOWER'S FISH BRAND REFLEX SLICKER \$4.50

knocks rainy day gloom into a cocked hat

A.J. TOWER CO. BOSTON

BOOK ON DOG DISEASES And How to Feed

Mailed free to any address by the Author

H. CLAY GLOVER CO., Inc.,
118 West 31st Street, New York

LEARN AUCTIONEERING and Live Stock Pedigrees and Make Big Money.

Write today for catalog of the Original and World's Greatest School. Term opens December 5th.

JONES NAT'L SCHOOL OF AUCTIONEERING,
28 N. Sacramento Blvd., Chicago, Ill.
Carey M. Jones, President

THE GUNN BEAN HARVESTER

AS STANDARD AS A ROE

1 MAN - 1 "GUNN" - 1 DAY can readily harvest 2 1/2 acres of beans. Wet weather need not stop the bean harvest if you have a "GUNN" ROOTS are really left in the field. Beans dry much faster - threshing is cleaner. NO EASIER CHEAPER way to HARVEST BEANS.

ONLY \$5

F. D. BULLOCK, Sales Agent
1716 Palmer Avenue KALAMAZOO, MICHIGAN

DEALERS WRITE FOR TERMS

PAINT

Barn Paint \$1.16 Per Gallon

Get Factory Prices on All Paints We guarantee quality. We pay the freight! Franklin Color Works, Dept. M, Franklin, Ind.

Homespun: smoking or chewing tobacco, 10 lb. \$2.50; 20 lb., \$4.50 lb., \$8. Collect on delivery. FORD TOBACCO CO., Mayfield, Ky

FREE TRIAL

in your own home of the

Monarch

Player-Piano

\$485

OF course, you and your family want a Player Piano. The Monarch Player Piano will meet your requirements. It has distinctive design, perfect workmanship, absolute durability and superior tone quality. It contains a most satisfactory mechanism.

For a limited time only we offer this Player Piano at a special price (\$485), half the price of other reliable instruments. Moreover, we will send it to your home for free trial. You will like it.



Send the attached Coupon filled out to nearest address and we will forward full particulars. No obligation on your part.

The Baldwin Piano Co.

Cincinnati Chicago DEPT. 6-A St. Louis New York
Denver San Francisco Indianapolis Louisville Dallas

THE BALDWIN PIANO CO. (Address nearest city) Dept. 6-A

Cincinnati Chicago St. Louis New York
Denver San Francisco Indianapolis Louisville Dallas

I would like to know full details of your free trial offer of Pianos or Player Pianos, without obligating me in any way.

Name

Address

P. O. State

Woman's Interests

A Mother's Experience

THOUGH free information concerning the care and feeding of infants may be had from so many sources, such as baby clinics, which are established in most of our cities; a pamphlet, "Infant Care," put out by the Children's Bureau of the Department of Labor at Washington, and in many magazines, the most important item of feeding both babies in the country and small towns is often left out. This is the care of the milk to make it safe for an infant's food. In the city, where certified milk may be procured, the above mentioned information is all that is needed, but living in the country it has been necessary for me to solve the problem myself by experimenting (think of it!), with my babies' food.

I can make myself more clearly understood, perhaps, by telling the story of my three babies, whose ages are two and a half, sixteen months, and three months. They were the same

having stomach and bowel trouble. She did nicely until we moved and began feeding the cows ensilage, when she developed a very severe attack of indigestion, which nearly took her life before we discovered the cause. On changing the cow's feed, she began to gain back her strength and to grow. Now at sixteen months she is a very large, strong child, perfectly healthy, with no stomach or bowel trouble, even while teething.

The third baby we are feeding the same way, milking through sterilized strainers, cooling the milk in cold water uncovered, then covering with a muslin cloth and setting in a cool place in cold water. This baby at three months weighs fourteen pounds (he weighed eight pounds at birth), and keeps on gaining steadily. He has been perfectly well from the first and if nothing happens to interfere, I believe he will be a model bottle baby. He lies in his crib and kicks and plays or sleeps, and all he asks is his food at the proper time, his regular bath, fresh air and plenty of clean, dry clothes. My care of him is mostly hard work in the kitchen, but this seems much better and easier to me than the constant care of a fretful baby.

I believe I have proven satisfactorily that this is true: the cleaner the milk the better the baby. There are three things always to keep in mind concerning it: Clean, Cool, Covered. I have a large porcelain kettle with a cover which I use only for the purpose of sterilizing, and I have lots of faith in my kettle. Everything that comes in contact with baby food must be boiled. Milk kept in this way has a delightful fragrance and taste. We use about a gallon a day for the three, the older ones drinking all they want.

One has to experiment at first to find whether the milk is too rich or not. If so, it may be skimmed a little, though my babies take very rich milk.

During the day the food is warmed by setting the bottle in warm water and testing for the right temperature, but the nipple should never be put in one's mouth. The problem of warming the food at night may be solved by buying a baby bottle warmer, which heats it in warm water also, thus avoiding the danger of constipation. My milk-fed kiddies are my pride, and though I must work so hard to keep them well and growing, in their rosy cheeks and bright eyes I find a blessed reward for my labor.—L. E. M.

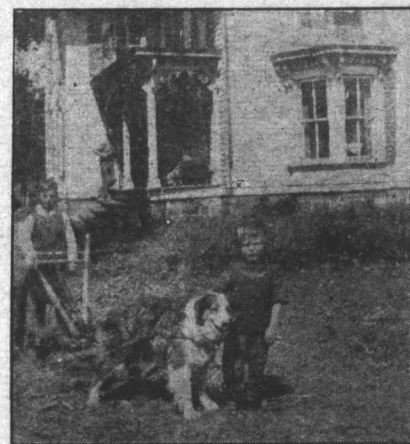
CRABAPPLES.

CRABAPPLES may be preserved for winter use in many ways that prove a delicious addition to the table. We are all familiar with jelly and marmalade prepared from this fruit. Below are several combinations that may be new to some housekeepers. In all these recipes the tart or jelly crab is used.

Mock Cranberry Sauce.

Halve and core enough crabapples to make four quarts. Do not remove the peeling.

Put the fruit in a shallow aluminum or enamelware kettle, add eight cups of granulated sugar and one quart of water. Let simmer gently on back of range till all the pieces are tender. The juice will jelly around the fruit and makes a pretty, as well as a de-



William and Jacob Crawford Find that Dogs Make Good Companions.

weight at birth, and apparently had the same strength and vitality. They were fed one of the proprietary foods, combined with fresh milk for the first three months, then milk prepared with lime water and sugar, using the formula in "Infant Care." The milk was mostly from the same cow, the bottles and nipples were carefully sterilized for each feeding, the food kept covered in a cool place in a sterilized fruit jar; they were fed at regular intervals, the right amount of food according to age and weight, but there was a vast difference in their development, due to the handling of the milk.

The first baby was fed skim-milk, as I thought the stomach trouble she developed was due to the cream, though I now am certain it was caused by milk taken from the general supply in a tin pail. Though I took particular pains with the cleaning of the pail, there are too many seams where the germs lodge, to make it a safe baby's milk container. This baby's legs became bowed as a result of the skim-milk. This trouble is a form of rickets, due in this case, I have been informed, to lack of butter-fat, which is essential to the proper growth of the bones. This I corrected by giving her all the rich milk, cream and butter she would take, after she was weaned and I discovered the trouble and its cause. However, this baby grew very large and strong and is today healthy and large for her age.

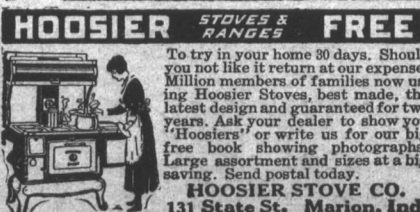
The next baby was fed whole milk prepared by the same formula. Milk-into sterilized fruit jars, straining and cooling immediately, saved her from

Dont Send 1 Penny



Just send your name and address and I will send this fur scarf to you. You don't pay one penny until the fur is delivered at your door by the postman. This is a wonderful opportunity of getting a \$9.00 scarf for \$4.45. Our price is amazingly low. Compare it with others and see for yourself.

A Fashion Necessity
Every stylish woman is wearing a fur scarf with her coat, suit, dress or waist. It is appropriate for every occasion. This scarf is made of Manchurian fox, which has long, soft, silky hair. This is not the genuine American fox, but will wear much better than the genuine. Scarf is a large animal shape with head at one end and tail and paws at the other. Lined throughout with all-silk lining. Also has silk ruffle around neck. Very large and graceful. Colors: Black, Lucille brown or taupe gray.
SEND NOW just your name and address—no money. When the fur scarf arrives pay the postman \$4.45 for it. We have paid the delivery charges. Wear the scarf. If you don't find it all you expected, return it and we will cheerfully refund your money at once. This is our risk—not yours. Be sure to give color. Order by No. 17.
Walter Field Co. Dept. B1101 Chicago



HOOSIER STOVES & RANGES FREE
To try in your home 30 days. Should you not like it return at our expense. Million members of families now using Hoosier Stoves, best made, the latest design and guaranteed for two years. Ask your dealer to show you "Hoosiers" or write us for our big free book showing photographs. Large assortment and sizes at a big saving. Send postal today.
HOOSIER STOVE CO.
131 State St. Marion, Ind.

World's Best Roofing

At Factory Prices

"Reo" Cluster Metal Shingles, V-Crimp, Corrugated, Standing Seam, Painted or Galvanized Roofings, Sidings, Wallboard, Paints, etc., direct to you at Rock-Bottom Factory Prices. Positively greatest offer ever made.

Edwards "Reo" Metal Shingles

cost less; outlast three ordinary roofs. No painting or repairs. Guaranteed rot, fire, rust, lightning proof.

Free Roofing Book

Get our wonderfully low prices and free samples. We sell direct to you and save you money. Ask for Book No. 167.

LOW PRICED GARAGES

Lowest prices on Ready-Made Fire-Proof Steel Garages. Set up any place. Send postal for Garage Book, showing styles. **THE EDWARDS MFG. CO.,** 1017-1067 Pike St., Cincinnati, O.

FREE
Samples &
Roofing Book

New 300 Candle Power Lamp



Make \$60 to \$100 a Week
Introducing this wonderful new lamp. Gives soft, brilliant light; restful to eyes; ideal illumination. Burns Kerosene or Gasoline. Clean, odorless, economical. Burns 96% air, 4% fuel. Absolutely safe. Lights with match. 100 times brighter than wick lamps. Patented. Greatest improvement of age. Table lamps, hanging lamps, lanterns. Work all or spare time. You simply take orders. We deliver by Parcel Post and do collecting. Commissions paid same day you take orders. No experience necessary. Get started at once. Big season now on. Write today for catalog and special agents offer.
THE AKRON LAMP CO.
390 Lamp Bldg., Akron, O.

AGENTS
FREE
Offer

7% Mortgages

for sale at 10% discount on new homes in Detroit and suburbs. Write or come to see **A. J. HART,** 1258 Penobscot Bldg., Detroit, Mich.

Trunks, Bags, Suitcases. Buy from factory direct. We will save you money. Send for free catalog. **GEM TRUNK and BAG FACTORY,** Spring Valley, Ill.

Mention The Michigan Farmer When Writing Advertisers

licious conserve, which is always good.
Crabapple and Peach Jelly.

Save the peelings and pits from your peach canning, also any small or unripe peaches. Cook and strain the juice. To three cups of the peach juice add five cups of crabapple juice. Boil and add sugar as for plain jelly. This is a delicious jelly with both a color and flavor that is "different."

Blackberries or pears may be combined in the same manner as the peaches.

Crabapple and Citron Preserve.

Prepare the citron by slicing in half-inch slices. Cut in half-inch strips, and lastly cubes, removing seeds. To every four quarts of citron add two quarts of halved and cored crabapples.

Put in a shallow preserving kettle, add twelve cups of granulated sugar and set in the ice box or a cool place a few hours or over night. Do not add any water. The sugar draws the juice from the citron. Place the kettle of fruit on the back of range and let it simmer until the pieces of citron are clear and the apples are tender. The crabapples add both a tartness and color to the melon, and is preferred by many to lemon.—Rebecca R. Bailey.

TESTED FARM RECIPES.

WEST Michigan farm women are canning meat in the following manner. Beef, veal and pork may all be canned in this way and will keep indefinitely.

Cut the meat into pieces convenient for packing into fruit jars. Dip the moist hand into table salt, and taking a piece of meat in the other hand wipe both sides with salt, leaving a very thin coating. Pack in jars as fast as salted, and on top put a piece pack method, boiling three hours. Do not allow any water to enter the jar as this spoils the meat. The greatest care must be taken to see that all rubbers are good, and there is no leakage after the cans are removed from the boiler.

Foolish Frosting.—This is the new frosting Michigan farm women are using. Put seven-eighths of a cup of granulated sugar, one unbeaten egg white and three tablespoons of boiling water into the top of the double boiler. Set at once over boiling water and beat steadily six minutes. If you have no double boiler, use any dish which will set over boiling water. The frosting will froth up and resemble the usual boiled frosting.

MR. AND MRS. SPRATT, INC.

IS meat as injurious as some dealers in other forms of food have tried to make us believe? The Institute of American Meat Packers thinks not and is proposing to go about a campaign of publicity to prove to the American public that a great many of the unkind things which have been said about meat eating are not true.

There's the matter of botulism, which some strict vegetarians like to lay up to meat. The Institute bulletin, "Meat and Live Stock Digest," points out that in the fifty-four recorded cases of botulism in America in the last eleven years the cause was not known in nine cases, and that in the other forty-five cases, thirty-eight were caused by preserved fruits or vegetables.

Auto intoxication, which we have been led to believe is caused chiefly by over indulgence in meat, the paper quotes medical authorities to prove is as often caused by over-eating of sweets or unripe fruits and vegetables.

The idea is also brought up that while the number of bacteria found in uncooked flesh is often quoted by alarmists, little or nothing is said about the number of bacteria found in much market milk and in vegetables and fruit exposed in markets and eaten raw. It is an interesting thought, inasmuch as meat is always cooked at

a sufficiently high temperature to destroy any bacteria which might normally be present.

Having been propagandized on the subject of every other food essential, or unessential, to life, it is but fair that we give the meat men a respectful hearing. Certainly the experience of temperate eaters in the hundred thousand odd years of human existence bear out their contention that sane use of meat offers no more digestive horrors than any other food. The whole scare against meat-eating is but another instance of what propaganda can do.

WINTER TOMATOES.

I WAS late getting my tomato plants out last spring, and a few days later still, a neighbor made me a present of some nice Golden Ponderosa tomato plants. Stress of other work prevented me from giving my garden much care, consequently the plants developed slowly. By the time the early frosts came, the latest Earlianas were just in their prime and the Ponderosas were just beginning to ripen.

The first real cold evening we pulled the finest plants of each kind and hung them up in the cellar, leaving the roots as little disturbed as possible. I expected they would be checked in developing, but on the contrary, they seemed to ripen fully as fast as they would in the ground. They were good-sized tomatoes, and on October 15 we picked a panful of lovely ripe ones, both yellow and red.—Mrs. E. M. A.

TOMORROW'S DINNER.

Creamed Hamburg
Potatoes in Jackets Corn on Cob
Stuffed Tomato Salad
Steamed Berry-Pudding Creamy Sauce
Iced Tea.

Creamed Hamburg.—Hamburg is much nicer if you would buy round steak and put through your own chopper. To cream, put two level teaspoons of fat in the frying pan, add hamburger when it melts, and stir until the meat changes color. Add one pint of rich milk and thicken with one flat tablespoon of flour, dissolved in cold milk, and the yolk of one egg. Reserve the white for creamy sauce.

Corn on Cob.—This is much finer flavored if the corn is cooked in the husks. Strip off outside husks, pull down inner ones and remove silk. Then replace husks and tie at top. Boil twenty minutes and remove husks before sending to table.

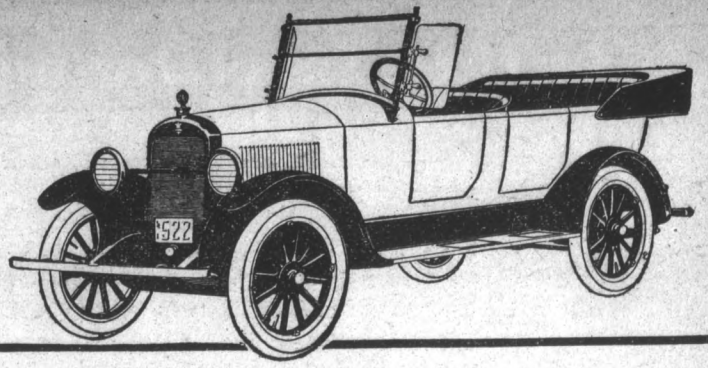
Stuffed Tomato Salad.—Remove the skins from medium-sized, smooth tomatoes, cut off top and scoop out part of center. Stuff with celery, onion, and part of the center finely chopped, and pour over all boiled salad dressing. Serve on lettuce leaves.

Steamed Berry Pudding.—Either blackberries or huckleberries may be used. Sift two cups of flour, four level tablespoons of baking powder and one teaspoon of salt. Work in two generous tablespoons of butter, and add one cup of milk and one of berries which have been shaken about in one tablespoon of flour. Turn into a buttered mold and steam for one and one-half hours.

Creamy Sauce.—Boil one cup of sugar and one-half cup of water until it falls from the side of the spoon in drops. Pour onto the stiffly beaten white of an egg and beat until cold. Then fold in one cup of whipped cream.

The tank of an oil-stove, located outside the house, with oil piped through the wall on a gravity feed, has proved a help to one housewife. The oil man can fill the tank outside, without greasing up the kitchen linoleum.

Save your own flower seeds this fall.



Briscoe "Pure-Built" Transportation for Farmers Everywhere

Just as Shire horses are purebred to work and weight, so is Briscoe "pure-built" to give farmers everywhere economical and trustworthy transportation. You will find over rough going, bunchy pasture land or driving into the hills, that Briscoe power is always responsive, the cooling system works perfectly, the springs smooth the ride and the consumption of gasoline is surprisingly low.

When you want to drive over to the county seat or to a dispersal sale or into town or around your land, Briscoe is always ready to make the trip. It is this absolute dependability of Briscoe that makes it *the farmer's genuine service car*. The family, too, will like Briscoe's beautiful lines and high quality finish.

BRISCOE

New Price
\$1085

F.O.B. Jackson, Mich.

Equipped with windshield wings, motometer, running-board mats, and bumpers front and rear.

The first time you are in town stop in at the Briscoe dealer's store. You will find Briscoe is "all car," with a number of features that will interest you. Buy the car "pure-built" for your purpose—the most value at the price

BRISCOE MOTOR CORPORATION, Jackson, Michigan

The Canadian Briscoe Motor Company, Ltd., Brockville, Ontario

The most completely equipped car in America in its price class



SPORT!

The wrong underwear surely is a "spoilsport" for the outdoor man.

Look well to your underwear

For warmth without undue weight—for all-day-long comfort wear **HIGH ROCK Fleece Lined Underwear** as do most outdoor men who have once tried it.

You can buy cheaper garments—save 25 cents or so—but you cannot get the same generous, full cut comfortable garment, nor the same long-wear, wash-resisting soft warm fleece and the pre-shrunk fabric that you get in **HIGH ROCK**. It is cheaper in the end and much more satisfactory to start out with.

HIGH ROCK FLEECE LINED UNDERWEAR

Made in Shirts, Drawers and Union Suits
HIGH ROCK KNITTING CO., Philmont, N. Y.
Largest Mfrs. of Fleece Lined Underwear in the U. S. A.

For Rent: 300 Acre farm in the "Thumb" Port Hope, Michigan. All improved level clay soil. Joins the village. Large barns with silo. On shares. Can occupy at once or next spring.
C. R. SMITH, Niles, Mich.

Farms and Farm Lands

\$1000 Secures 200-Acre Farm With Furniture, Horses, 12 Cows and

Calves, poultry, gas engine, incubators, crops, implements, equipment; steady job and good income from fine herd Holsteins; conveniently located one State's most popular sections; machine-worked fields, 40-cow spring-watered pasture; 1000 cords wood, 50,000 ft. timber, fruit, good 2-story 7-room house, spring water, 18-cow barn, poultry house, storage barn; disabled owners sacrifices all \$5500, only \$1000 down, terms. Details page 32 new illus. Catalog 1100 Bargains. **FREE, STROUT FARM AGENCY, 814 BQ Ford Bldg., Detroit, Mich.**

80 Acres Near Saginaw

Horses, 12 Pigs, 5 Cows and

Calves, poultry, crops, cream separator, implements, vehicles, tools included; splendid productive farm near excellent markets; easy drive RR; 50 acres heavy cropping tillage; creek watered pasture; abundance fruit; 2-story 7-room house, barn, granary, poultry house. Owner called away, sacrifices all, \$4475, only \$1500 cash, easy terms. Going farm ready to yield good income prosperity. Inspection will convince. Catalog Free. A. O. Heine, 118 South Franklin St., Saginaw, Mich.

Good 160 Acre Farm

No down payment required. Use your money to improve this fine piece of land. Located in Sanilac County. Near good markets. Surrounded by well improved farms. We have many other good bargains. Write us your wants. **THE JAMES A. WELCH COMPANY, 111 West Kearsley St., Flint, Mich.**

WESTERN MICHIGAN FARMS

Improved and unimproved; ranches, grazing areas, colonization tracts; noted fruit region; general farming, dairying, etc. Exceptional marketing, social and transportation facilities. Illustrated booklets free. Western Michigan Development Bureau, Dept. 99, Grand Rapids, Mich.

Big Bargain: 100 acres, fine house, large barn, only \$1500 needed, write for pictures. DeCOUDRES, Bloomingdale, Mich.

173 Acre Farm good house, buildings, With or without stock. Owner Box 382, Denton, Maryland.

A Good Combination

OFFER No. 302.

Michigan Farmer, one year.....\$1.00
Woman's World, one year..... 50
American Women 50

Total value\$2.00
All for \$1.55.



Outlast Three Ordinary Pair of Rubber Shoes

Three pair of ordinary rubber shoes will give you no greater service than a single pair of GOLD-SEAL Leather-Top Lincolns. That's why GOLD-SEAL has been the largest selling rubber footwear in Michigan for years.

These shoes are more flexible and comfortable, too—no amount of twisting or bending will crack the pure Para rubber used.

Just a Made-to-Order Shoe for Farmers, Miners and Lumbermen

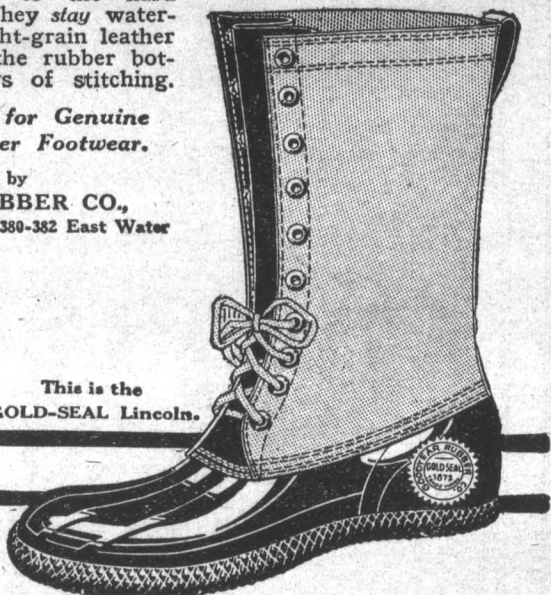
Goodyear GOLD-SEAL Lincolns are built for men who do hard work—men who want the plant fit of rubber combined with tremendous resistance to the hard knocks of service. They stay water-proof, for the straight-grain leather upper is joined to the rubber bottom with four rows of stitching.

Ask Your Dealer for Genuine GOLD-SEAL Rubber Footwear.

Made only by
GOODYEAR RUBBER CO.,
Milwaukee, Wis., Branch: 380-382 East Water Street.



This is the
GOLD-SEAL Lincoln.



POULTRY

PULLETS PULLETS

We are all sold out of 8-10 week old pullets. And are booking orders now for breeding pens of ready to lay Single Comb White Leghorn, 5 pullets or yearling hens and one choice cockerel for Oct. Delivery. These birds are all raised by us from our bred to lay American-English strain. None better any where, regardless of what price you pay. They must be seen to be appreciated. Get ready for next year breeding season by ordering a pen of these, splendid birds and increase the profits from your flock. Choice breeding cockerel.

Price on application.

Macatawa White Leghorn Co. Inc.,
R. 1, Holland, Mich.

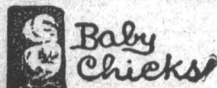
LEGHORNS

AND ANCONAS

Yearling Hens and Pullets

This stock is all selected Pure Bred Practical Poultry, late moulters and good layers; 3000 Yearlings; limited number pullets. Guaranteed good practical quality. We will send you description of fowls and egg records. If you want first class paying Leghorns, write to us. Also limited number R. I. Red and Black Minorca Pullets; White Wyandottes yearlings.

STATE FARMS ASSOCIATION
Desk 1, Kalamazoo, Mich.



Baby
Chicks

\$14 a 100
and up.

Postage PAID. 95% live arrival guaranteed. FREE feed with each order. 40 breeds chicks, 4 breeds ducklings. Select and Exhibition grades. A hatch every week all year. Catalogue free. Stamps appreciated. NABOB HATCHERIES, Gambier, Ohio

CHICKS

Send your order in early for 1922 delivery. Our prices are always reasonable. We give you a square deal.

ROYAL HATCHERY,
R. 2, Zeeland, Mich.

APRIL COCKERELS Winter Laying Pullets

Now over three months old. Anconas, White Leghorns in two grades, Brown Leghorns, Black Leghorns, Buff Leghorns, Rocks, Reds, Wyandottes and Black Minorcas. Write for prices. Crescent Egg Company, Allegan, Mich.

Barred Rock Cockerels

Parks 200-egg strain. From stock direct from Parks best pedigreed pens. \$3 each. R. G. KIRBY, Route 1, East Lansing, Mich.

DAY-OLD CHICKS

\$16.00 per 100 and up. Hatching eggs, \$2.00 to \$15.00 per setting and \$9.00 to \$15.00 per 100, from 25 varieties of pure bred, farm ranged fowls: Chickens, Geese, Ducks, Turkeys and Guinea. Price list and circular free. Plenty of nice breeding stock. Book now for early spring delivery. WILMINGTON HATCHERY & POULTRY CO. Wilmington, Ohio.

Barred Rocks egg contest winners, eggs from strain with records to 290 a year. \$2.00 per setting prepaid by P. F. Circular free. FRED ASTLING, Constantine, Mich.

Barred Rocks, W. Wyandottes, R. I. Red stock. HOWARD GRANT, Marshall, Mich.

Barred Plymouth Rock Cockerels, large birds from prize-winning heavy-laying strain \$5.00 each. J. A. Barnum, Union City, Mich.

English S.C.W. Leghorns. Early hatched pullets and prices. Robt. Christopher, R. 4, Holland, Mich.

Top Quality Cockerels Minorcas, Houdans, Rocks, Reds, Orpingtons, Spanish. Tyron Poultry Farm, Fenton, Mich.

WEIGHED TRAPNEST WHITE LEGHORNS FREE. Lay 265 to 301 eggs per year. Winners at 50 shows. Chicks, eggs, pullets, hens and males shipped C.O.D. at low prices. Write today for catalog and complete information to the World's Largest Leghorn Farms. GEO. B. FERRIS, 934 UNION, GRAND RAPIDS, MICH.

USEFUL ANCONAS June and July chicks lay before cold weather. Eggs half price \$6.50 per 100. \$3.50 per fifty. Hogan tested, beauty and utility combined. Specialty breeder S. C. Mottled Anconas. Send for booklet. (Useful facts about Useful Anconas). It is free. College View Farm, R. 3, Hillsdale, Mich.

RHODE ISLAND WHITES win over all breeds at the egg laying contest. 30 eggs \$5; 50 \$8; 100 \$15 order from this ad. Some chicks. H. H. JUMP, R. 5, Jackson, Mich.

White Leghorns English and American strains. Choice cockerels, hens and 8-week pullets. \$1.40 each for 10 or more; special prices in 100 lots. Will ship C. O. D. FRANK HEINZ, Box 6, Comstock Park, Mich.

Pullets and Breeding Stock 8 varieties, also ducks and geese. Send for prices BECKMAN, 26 E. Lyon, Grand Rapids, Mich.

WHITE WYANDOTTES 207 egg average; cockerels \$5 each, 3 for \$14, 6 for \$25. FRANK DeLONG, R. 3, Three Rivers, Mich.

Single Comb Buff Leghorn cockerels. April and May hatched. Large lively fellows. Noted laying strain. Willard Webster, Bath, Mich.

Whittaker's R. I. Reds Michigan's Greatest Color and Egg strain. Both Rose and Single Combs. Get your cockerels early and save money. Write for free catalog. INTERLAKES FARM, Box 39, Lawrence, Mich.

White Wyandotte cockerels and pullets. Prize winners and heavy producers. \$4 each. June hatched birds at \$2 each. Lone Elm Farm, EARLE R. MORRISH, R. 6, Flint, Mich.

W. Chinese Geese, Pekin Ducks, R. C. Br. Leghorns. MRS. CLAUDIA BETTS, Hillsdale, Mich.

Our Boys' and Girls' Page

Prizes for Ten Minutes Work a Day

TEN minutes a day is all the time that Jay Seymour, of Eyota, Olmsted county, Minn., spent in raising his prize pig, Lady Buster. This made only twelve and a half hours for the whole contest, which brought him the first prize in Olmsted county, a trip to the State Fair, and high ranking there.

Jay chose a Chester-White, because to him the color suggests cleanliness and purity. Perhaps father's herd of Chester Whites made a difference, too. From a litter of eleven pigs the boy chose Lady Buster, a daughter of Eyota Buster, who won first prize for him in 1919; and of Buster's Girl, a daughter of Big Buster Second, the second prize junior yearling pig at the Minnesota State Fair in 1919, and a grand-daughter of Big Buster, the

Show at the Minnesota Fair Grounds, October 8, the opening day of the big educational, agricultural exposition.

According to representatives of the United States Dairy Division and the Boys' and Girls' Club section of the States Relations Service, who are co-operating with the National Dairy Association in putting on this contest, it will be the largest and most instructive ever held. Last year in Chicago, fifteen teams from as many states participated and it is expected the entry list will far exceed that here.

Only one team can enter from any one state. Any boy or girl between the ages of twelve and eighteen who is a bona-fide member of a club project relating to dairying as conducted by the extension service of an agricultural college, who has been selected and



In Minnesota Club Members Are Getting Enthusiastic Over Rabbits.

world's greatest Chester White boar of today; for he was grand champion at state fairs at Minnesota and Wisconsin, the LaCrosse fair, and the Interstate, and first of his class at the greatest show of all, the National Swine Show. So you see Lady Buster was of very good stock to start with.

On the second of May, Jay started, when the pig was sixty days old and valued at \$25. It weighed seventeen and a half pounds. Then he fed Lady Buster in earnest. For four months she pastured on June grass, but the chief food of all was 900 pounds of skim-milk. This Jay considered the most important of all, for the milk gives the pig variety, such as fats, carbohydrates, water and mineral substances which occur in just the right proportion, such as no other food has. The June pasture gave the pig exercise and strength, which made her rugged. Then she had grain, too—900 pounds of barley, two bushels of corn, and sixty-seven pounds of oats. In all the feed cost \$11.78.

After 123 days of feeding Lady Buster tipped the scales at 199 pounds, making a gain of 181½ pounds, or 1.47 pounds a day.

At the State Fair Jay had a score of 92.9 per cent perfect, as follows: Type 55.9 out of a possible sixty; cost and records, 9.5 out of ten; gain, twelve out of fifteen, and story, fifteen out of fifteen.

Jay has decided that raising pure-bred pigs is a life-work which will give service and bring profit, so he will adopt it for himself.—M. S.

BOYS AND GIRLS TO JUDGE CATTLE AT DAIRY SHOW.

GOLD watch and thirty-nine gold, silver and bronze medals will be the trophies awarded the boy and girl winners in the National Junior Cattle Judging Contest at the National Dairy

certified by the State Director of Extension as eligible, and who never has taken part in a dairy cattle judging contest of a national character, and who has not had training to exceed six weeks in any regular college course, may become a member of a state team.

Thousands of boys and girls in the states represented, which will include Minnesota, Wisconsin, Iowa, North and South Dakota and Michigan, will have competed in local county and state contests before coming to the National Show.

In making the official announcement of the contest, E. V. Ellington, of the Dairy Extension Section of the United States Department of Agriculture, said:

"Good dairy cattle are the first essential for profitable dairying and they are the most efficient producer of human food. By developing interest in dairy cattle through cattle judging, a great incentive is given a large number of boys and girls who do bigger and better things in whatever line of life, they may pursue."

BOY WHO EARNS HIS REWARD ENJOYS IT MOST.

BOYS, who by their own efforts earn the things that come into their possession are more appreciative of them than those who are given everything by indulgent parents, according to Dr. Charles D. Hart, chairman of the Boy Scouts of Philadelphia.

Dr. Hart was discussing the desirability of having boys set a goal for themselves and start out to win it.

"The boy who gains a coveted thing," said Dr. Hart, "is in the same position as a man in later life who wins honors. It will be really enjoyed only if honestly earned by real personal effort."

Unusual Country Churches

Our Weekly Sermon—By N. A. McCune

A WELL-KNOWN weekly publisher in the east has, during the past year, had a series of ten articles on country churches. The series is now complete, and we can look it over. I preserved these articles, or most of them. They constitute an interesting study, and one highly worth while. Let us note first the denominations that are represented in this list. Two belong to the Methodist Episcopal faith; Methodist Episcopal, South, one, and Methodist Protestant, one; Presbyterian Brethren, one; Baptist, one, and Roman Catholic, one; undenominational community church, one. The states represented are as follows: Pennsylvania, South Dakota, Tennessee, Arkansas, Iowa, Missouri, Illinois, Colorado. Thus it will be seen that to be successful a country church does not have to be located in any particular part of the nation, and it need not belong to any particular denomination. It all depends on—what? That would be answered differently by different people. It certainly depends on the man called the preacher, but also on the people with whom he works. That is no royal road to glory in the making of a successful rural church.

When one looks at this list, he is struck with several things. First, each of these churches performs more than one service for the community, where it is located. In some cases it is noted for doing several lines of work and doing them well. People say, "O, if we only had a splendid preacher, who could preach great sermons!" Well, what if you had. Some folk would continue to take their Sunday morning nap just the same. It is not necessary for a minister to be an orator to have a successful church. Frequently the community needs oratory the last of all. To rely on any one line of activity for success, is putting all the eggs in one basket. Christ did not do so. He taught the people, but he also healed their bodies. He not only healed the body, but he gave attention to the children. More than that, He was most sociable. He never declined an invitation to dinner or to a social occasion, that we have record of. Not only so, but He trained with intense care a circle of twelve men, who would be able to carry on His work after He was gone. He touched people at many points.

IN their attitude toward those who desired to join, these successful churches present some interesting facts. Several of them make the requirements for admission very liberal, and they say that this has figured in their success. Denominational frills are discarded. In one case, the Methodist pastor took in eighteen from homes where they preferred the Baptist way of doing, and they were all immersed. The United Brethren Church is one which any Christian can join, while the undenominational community church has nine denominations represented on its rolls. In at least two of the churches, the pastors are road builders. This includes the Roman Catholic priest. These pastors actually get out and help make roads at times, and again they go about campaigning for better roads. Recreation is not neglected. The churches either attempt to provide some recreation, or they aid and abet it in the community. Two of the ten have movie machines, one of them an eight hundred dollar machine, which is run every Friday night. Two of the churches are influential enough to require that the teachers in the school shall be Christians. One even has sufficient influence to demand that they shall teach in the Sunday School.

In the matter of knowing about ag-

riculture, these pastors are keen, but it looks as though the Catholic priest excels them all. For ten years he has given lectures and demonstrations in his church on farm topics that range from stock raising to apiculture. In the church in the Ozark Mountains, the pastor has an assistant who teaches agriculture, and a lady helper who teaches domestic science. And still some folk say the church is slow! And note this: The United Brethren church has a long eye to the future. When a farm is to be sold in the neighborhood, the pastor and people get together and decide who is to buy it. Thus they keep a desirable and progressive type of people in the township. And listen to this quotation: This township is so completely dominated by this church that there has never been "a saloon, a drunkard, a pauper, a bolshevist, a dance hall, a justice of the peace, a constable, a crime, a lawyer, a lawsuit, or a quarrel of any real consequence." Let's all move to Orange Township, Black Hawk County, Iowa! If one isn't sure of getting to heaven, he can at least get that far on the way.

THESE churches are attentive to the needy. The poor are not overlooked. One church sent a crippled boy to the hospital, where he was cured. The boy said, "Ma says she believes in that kind of prayin'."

The pastor down in the Ozarks is a fighter. When roughnecks came into the church to break up the meeting, he put them out. When men were selling moonshine, he went out alone and arrested the ringleader, saw him convicted and sent to prison. When he had served his term and was back, the pastor was the first to welcome him, and show him the upward way. The ex-jailbird was converted. The Catholic priest tells with what purpose his people gather for worship: "The great sermons are preached for us, by the living and growing things all about us, and we gather there on Sunday in the presence of our Lord, just to commune with Him for a little while and get closer to him, and to thank Him for his goodness and love and tender mercy."

SOME of the other impressive phases of work that these churches promote, will interest us. The churches on the whole, have large memberships. Yet this was not always so. The memberships have grown. In one church, fifty-five out of fifty-six tenant farmers paid an average of \$24.86 to the church. Farm owners paid an average of \$59.50 for each family. In the matter of physical equipment, there is vast variety. One church building cost \$150,000 while another cost less than \$10,000. One of the best features of one or two of these churches is the fact that they have trained their laymen to do effective work for the Kingdom. Some of these men can preach as well as the pastor, it is claimed.

When you turn to publicity, it is by no means neglected. These pastors have learned to keep their light out in the open where it can be seen. They use printed matter, and one uses an electric light on the steeple, "to remind the people that the church is on the job twenty-four hours of the day and three hundred and sixty-five days of the year." One church sent a team of six autos to advertise its chautauqua, while another uses letters as a means of taking the message to the homes and hearts of the people. Contests and fair play are not an unimportant part. When folk see that the preacher is interested in things they like, they are likely to become interested in things the preacher likes.



Put one Columbia "Hot Shot" Ignition Battery on your gas engine, Ford, or tractor today—

Think of the advantages of using Columbia Dry Batteries on the farm:

- inexpensive
- long lived
- simple, no parts to care for
- portable, put electricity wherever you want it
- safe, free from fire risk
- easily obtained, for sale everywhere

SAVE your temper, fuel, and time. The sure-fire ignition battery to give you a quick start every time is Columbia "Hot Shot." Costs little more than the ordinary set of several cells—lasts a lot longer. You need but one Columbia "Hot Shot," because it's a high cellpower dry battery and one does the job, no matter how cold the weather.

Saves Fuel—Increases Power

Stop in today at the electrical, hardware, or auto accessory shop, general store, garage, or implement dealer's and ask for the genuine Columbia "Hot Shot." The name Columbia is in big letters on the label. Accept no substitute.



The world's most famous dry battery. Fahnestock Spring Clip Binding Posts at no extra charge

Columbia Dry Batteries

—they last longer

1182134

GOOD SALT "Melts" like a flake of SNOW



Ordinary Salt
The crystals or flakes of ordinary salt are hard and slow dissolving.

If you want even, yet mild flavor, for which you use salt, select a pure, instantly dissolving salt. No salt is salt, unless it does dissolve.

Other salts are of hard, granular crystal or hard, flaky texture. Colonial Special Farmers Salt is different, because its tiny flakes are soft and porous and dissolve instantly like flakes of snow. It penetrates quickly, seasons evenly. "Colonial" is all pure salt, with all the moisture removed.

Best for cooking, baking, butter making, meat curing, table use and all farm purposes. Will not cake or jump as ordinary salts do.



Colonial Salt
The soft porous flakes of "Colonial" dissolve instantly.

COLONIAL SPECIAL FARMERS SALT

THE COLONIAL SALT COMPANY — AKRON, OHIO
Chicago, Ill. Buffalo, N. Y. Boston, Mass. Atlanta, Ga.
FOR STOCK SALT—USE COLONIAL BLOCK SALT

Mention The Michigan Farmer When Writing to Advertisers

BREEDERS' DIRECTORY

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

THE HOME OF

Imp. Edgar of Dalmeny

Probably
The World's Greatest
Breeding Bull

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

The Junior Champion Bull, Junior Champion Female, Champion Calf Herd and First Prize Junior Heifer Calf, Michigan State Fair, 1920, were also the get of Edgar of Dalmeny.

A very choice lot of young bulls—sired by Edgar of Dalmeny are, at this time, offered for sale.

Send for Illustrated Catalogue.

WILDWOOD FARMS

ORION, MICHIGAN

W. E. SCRIPPS, Prop. Sidney Smith, Supt.

CLOVERLY ANGUS

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

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

Reg. Aberdeen Angus

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

Registered Guernsey Bulls for sale. 2 sired by
Gay Boy of Halcrow. 1 sired by Avon-
dale's Choice. All one yr. old, ready for service. 1 born
July 26th 1921, sired by Avondale's Choice. All beauti-
fully marked brown and white. Address Dr. W. R. Baker
4800 Fort St., West. Phone West 629, Detroit, Mich.

GUERNSEYS. Federal Accredited Herd No. 9407.
Four grandsons of Carrie Hillhurst, record \$14
lbs. b. f. A. A. Class, out of cows now on test. Priced
right. Best producing cow in Jackson Co., 6 yrs. old,
\$500 gets her. G. W. & H. G. RAY, Albion, Mich.

Registered Guernseys—\$100 buys the last
bull we have, old enough for light
service—it will pay you to find out more about this
fellow. No reactors—no abortion—a clean herd.
J. M. WILLIAMS, No. Adams, Mich.

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

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

FOR SALE 9 Registered Female
Guernseys. GEO. W.
REEVES, 307 S. Division St., Grand Rapids, Mich.

Guernseys, WANTED prices on young registered
Guernseys, cows and heifers, must be healthy.
GEORGE D. SPRINGER, R. 6, Grand Rapids, Mich.

Four 32 lb. Yearling Bulls
Sired by SEGIS KORNDYKE DENILANDER, a 32
lb. son of a twice Michigan State Ribbon winner; her
dam 29½ lbs. One these calves from a 30 lb. dam, one
a 28½ lb. dam, one a 19 lb. 3 yr. old with only ¼ udder,
one 16 lb. 2 yr. old. Two of dams are daughters of
King Segis Fontaine, a 37 lb. son of King Segis. Fed-
erally tested June 10. Herd under State and Federal
supervision. Priced at half value.
A. G. WADE, White Pigeon, Mich.

A Good Note accepted in payment of finely bred reg-
istered Holstein bull calves. Quality
of the best, and at prices within reach of all. Write.
GEO. D. CLARKE, Vassar, Mich.

WinnWood Herd

Registered
Holstein-Friesian Cattle

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

John H. Winn, [Inc.]
Rochester, Mich.

Holstein Friesian heifer and bull calves, purebred
registered and high-grade. Price \$20 up.
Splendid individuals and breeding. Write us your re-
quirements. Browncroft Farms, McGraw, N. Y.

"Top Notch" Holsteins

Special Bargains in Young Bulls

No. 1 Segis Moonlight Pietertje King, No. 307706,
born Feb. 12, 1920. His sire's two nearest
dams average 36.32 lbs. His dam is a 22.58
lb. 3½ yr. old daughter of a cow that produced
104 lbs. milk in a day and 624 lbs. milk in 7 days.
She sold at auction for \$1,500.00. Price \$150.00
f. o. b. Howell.

No. 2 Village Moonlight Colantha Sir Aaggie, No.
333126, born Sept. 26, 1920. His sire is the sire
of bull No. 1. His six nearest dams average
28.01 lbs. Price \$125.00 f. o. b. Howell.

No. 3 King Vale Nijlander, No. 533123, born Sept.
19, 1920. His sire is the sire of bull No. 1. His
five nearest dams average 27.72 lbs. Price
\$100.00 f. o. b. Howell.

McPherson Farms Co., Howell, Mich.
All herds under U. S. Supervision.

MICHIGAN STATE GUERNSEY SALE

October 19th 1921 East Lansing, Michigan

Sale Pavilion, Michigan Agricultural College

First Annual Consignment Sale

Sixty-Seven Registered Guernseys Males and Females

!!! HERE ARE SOME OF THE FINE OFFERINGS !!!

TWO DAUGHTERS OF MAY KING'S LADDIE OF CHILMARK A.R. he by Itchen
Daisy's May King of Langwater A. R. (Sold for \$20,000).

IMP. CHRISTINE OF ST. SAMPSONS A. R. 3106, Milk 8527.10 lbs., B. fat 498.9 lbs.
at 2 yrs; re-entry, milk 11645.1 lbs., B. fat 608.0 lbs. at 7 yrs. (2 daughters in sale).

JUMBO OF BRIARBANK 64998, dam's record, 772.23 lbs. B. fat (9th Class C)

VENUS OF NELCROFT A. R. 3894, Milk 10061.35 lbs. B. fat 496.2 lbs. at 2 yrs., re-
entry, M. 11446.10 lb., B. fat 584.69 lbs. at 3 yrs.

TAN TIVY OF MAPLECREST A.R. 5961, Milk 10139.7 lbs., B. Fat 507.25 lbs. at 3 yrs.

ST. AUSTELL DIRECT No. 57081 (2 daughters, 1 son in sale). Sired by Don Diavolo
of Linda Vista A. R. (Sold for \$10,000) and out of Richesse of Linda Vista A. R. 5339,
Milk 10567.9 lbs., B. fat 502.2 lbs.

SIX SONS AND FIVE DAUGHTERS OF BELLWOOD DIMPLE BASS No. 48941,
sired by Jethro BASS A. R. sire of 22 A. R. daughters, and out of Lily of Grasslands A. R.
2919, Milk 11512.7 lbs., B. fat 540.75 lbs. at 4 yrs.

LILA OF CHESNEY FARMS A. R. 9538, Milk 7079.0 lbs. B. fat 364.50 lbs. Class EE.

MONARCH OF CAPITOL VIEW 63711, 1st. prize Michigan State Fair, 1920. Daugh-
ters of such great bulls as: Governor of the Chene (A. R.), Imp. Galaxy's Sequel (A. R.)
Modena's Yeoman of Langwater (A. R.), Langwater Cruzader (A. R.).

Granddaughters of such splendid sires as: Langwater Frederick (A. R.), Don Diavolo of
Linda Vista (A. R.), Langwater Dictator (A. R.), Langwater Demonstrator (A. R.), Bob
Rilma (A. R.)

Remember the Date.

Attend the Sale.

Auctioneers: Love and Benjamin

Send in your name for catalog to

F. E. Fox, Sales Manager, Waukesha, Wis.

AUCTION LARGE TYPE POLAND CHINAS

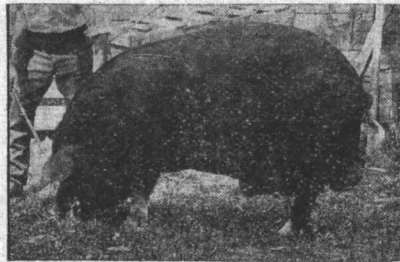
WED. OCT. 5th, 1921; 1.30 P. M.

Hillsdale Co. Fair Grounds

38 HEAD BOARS AND GILTS 38



H's Lady Clan 1074748 Grand Champion Jr. Sow, Dam of
pariort this offering



Peace and Plenty 439607. Herd sire. His pigs winning
2 Sr. Boar Pig, 2-3-5 Jr. Boar Pig, 1-2-5-6 Jr. gilt, also
1st get of sire at State Fair

Pigs from Grand Champion Sow, Sr. Champion Sow and other extra good dams will go in this offering.
Look at the report in the Farmer of my winnings and you will be convinced you will want one of these
pigs in your herd. Every pig cholera immuned.

Wm. Waffle, Coldwater
John Hoffman, Hudson
Jim Post, Hillsdale

John Williams, Clerk
North Adams, Mich.

Any bids mailed to either auctioneer or clerk will receive their Personal attention.

F. E. HAYNES, R. 1, Hillsdale, Mich.

A BLUE RIBBON WINNER YOUNG BULL

On the 1921 Show Circuit For Sale at a low price.
Out of an A. R. O. granddaughter of Pontiac Korn-
dyke. Sired by our SENIOR SHOW BULL, Model
King Segis Glista 32 37 lbs.

GRAND RIVER STOCK FARMS,
Corey J. Spencer, Owner
111 E. Main Street, Jackson, Michigan.
Herd Under State and Federal Supervision

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

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 30 lbs. Write for pedigrees and
quotations, stating about age desired.

TRAVERSE CITY STATE HOSPITAL
Traverse City, Mich.

Reg. Holstein Bulls ready for service sired by a 42 lb.
bull. Priced to sell. also a few heifers and cal-
ves. B. B. REAVY, Akron, Mich.

Reg. Tuberculin Tested Holstein bull.
3 yr. old.
G. L. BARNES, Three Rives, Mich.

Herefords

20 Cows of extra quality and breeding, 12 of them
bred to our \$5200.00 son of Old Repeater, also
bulls not related.

Allen Bros. Paw Paw, Mich.
or 616 So. Westnidge Ave.,
Kalamazoo, Michigan

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

The Wildwood Farm

Jersey Cattle, Majesty strain, Herd on State accred-
ited list, R. of M. testing constantly done. Bulls for
sale. ALVIN BALDEN, Phone 145-5, Capac, Mich.

Milking Shorthorns, accredited herds, males
and females, low prices. Davidson
and Hall, Beland and Beland, Tecumseh, Mich.

Francisco Farm Shorthorns

and BIG TYPE POLAND CHINAS. Now offering 3
heifers, 2 bulls, all Scotch. Sows to farrow in Aug.
and Sept. Spring pigs. 60 head to choose from.
POPE BROS. CO., Mt. Pleasant, Mich.

Beef-Milking Shorthorns. A few young bulls, heifers,
and cows. Sired by General Claymore and Wal-
grove Star. J. J. Foster & Sons, Niles, Mich.

Shorthorn Bull For sale. Fames Pride 724792. 3
yrs. old; roan. Very gentle and a fine specimen of
the breed. Price \$200. W. E. Bartley, Alma, Mich.

See Us At The Fairs

with our Red Polled Cattle.
WESTBROOK BROS., Ionia, Mich.

HOGS

Berkshire spring pigs, either sex, \$10, \$12 and \$15
According to age. Also fall gilts and yearling sows.
CHASE STOCK FARM, Ariette, Mich.

Duroc Jerseys A few extra good fall boars, and
a choice lot of spring boars of the heavy
boned type popular blood lines at reasonable prices.
DROTT & BERNES, Monroe, Mich.

Brookwater Duroc Jerseys

SPRING BOARS sired by Panama Special 55th,
Big Bone Giant Sensation and Brookwater
Demonstrator. The best of the breed, Order
one by mail or come to the farm. You will like
them when you see them. Prices reasonable.

BROOKWATER FARM, Ann Arbor, Mich.
H. W. Mumford, Owner J. B. Andrews, Mgr.

DUROC JERSEYS: A few choice
sale. CAREY U. EDMONDS, Hastings, Mich.



Spring pigs by Walt's
Orion, First Sr. Yearling
Detroit, Jackson, Gd. Rapids and Saginaw 1919
Phillips Bros, Riga, Mich.

Woodlawn Farm Duroc hogs are from select breed-
ing stock, well mated for size, type and color.
Herd boars, sows and pigs, will ship C.O.D. and fur-
nish Reg. certificate. W. E. Bartley, Alma, Mich.

PEACH HILL FARM

Offers gilts sired by or bred to
Peach Hill Orion King 152489
INWOOD BROS., Romeo, Michigan

DUROC SOWS and gilts bred to
Jack's Cherry
Orion King No. 169259 Son of the \$10,000 boar owned
by Longview Farm. Le Summit, Mo. also young boars
ready for service out of good sows. Apply
THE JENNINGS FARM, Bailey, Mich.

Duroc Have some choice spring boars sired by Great
King Orion Col. No. 189045, double immune,
priced reasonable. HARRY FOWLER, Sturgis, Mich.

Sows Bred to Michigan Orion Sensation (a
great son of Great Orion's Sen-
sation) and Michigan Demonstrator (one of largest
and best boars in Michigan) for sale at conservative
prices. Also growthy strong boars and gilts.
Michigan Farm, Pavilion, Mich., Kalamazoo, Co.

O.I.C's Choice gilts for April and May farrow, also
fall pigs. Booking orders for spring pigs.
A. J. BARKER & SON, Belmont, Mich.

DUROC JERSEYS

spring boars that will improve your hogs, of Orion
Cherry King, Col. and Pathfinder breeding, at rea-
sonable prices. Write us your wants. Bred sows and
gilts all sold. W. C. TAYLOR, Ionia, Mich.

DUROC JERSEYS

Bred gilts all sold. Choice spring boars by Brook-
water Demonstrator.
RUSH BROS., Oakwood Farm, Romeo, Mich.

DUROC JERSEYS Am booking or-
ders for fall
pigs. E. D. HEYDENBERG, Wayland, Mich.

Chester Whites quality March boars and fall
pigs at a very low price, satisfac-
tion guaranteed. F. W. Alexander, Vassar, Mich.

O. I. C's choice boars and spring pigs
at farmers prices.
CLOVER LEAF STOCK FARM, Monroe, Mich

O. I. C. and Chester White Swine. Strictly
Big Type with Quality. I am
sold out of everything but Spring pigs. Have the
finest lot I ever bred. Meet me at the State Fair and
other leading fairs of the State. And see a sample
of our hogs and pigs.
NEWMAN'S STOCK FARM, R. 4, Marlette, Mich

O. I. C's Special prices on spring
pigs from prize winning
sows. Phone R. O. 408.
W. W. Royal Oak, Mich.

Central Mich. O. I. C. Swine Breeders Ass'n.

Hogs of all ages of popular blood lines. Every
sale guaranteed by association.

DR. H. W. NOBLES,
Sales Mgr. Coral, Mich.

Lillie Farmstead Jerseys Bull calves from
COLON C. LILLIE, Coopersville, Mich.

JERSEY BULLS For Sale bulls
ready for service. Raleigh, Majesty, Oxford Lad breeding.
WATERMAN & WATERMAN, Ann Arbor, Mich.

Jersey Bulls For Sale ready for service from R. of
M. dams. T. B. tested. Will give time.
SMITH & PARKER, R. 4, Howell, Mich.

BIDWELL SHORTHORNS

BUY A BULL

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

BIDWELL STOCK FARM,
Box D, Tecumseh, Michigan

Richland Shorthorns

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

C. H. PRESCOTT & SONS,
Office at Tawas City, Mich., Herd at Prescott, Mich.

The Maple's Shorthorns

Kirklevington Lad, by Imp. Hartford
Welfare, in service. Stock for sale.

J. V. WISE, Gobleville, Mich.

Shorthorns. Bull calves for sale from the
best milking blood obtainable.
ROSEMARY FARMS, Williamston, Mich.

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

FIVE BRED HEIFERS

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



Aspirin

Then It's Genuine

Unless you see the name "Bayer" on tablets, you are not getting genuine Aspirin prescribed by physicians for 21 years and proved safe by millions. Always say "Bayer".

Aspirin is the trade mark of Bayer Manufacture of Monoaceticacidester of Salicylicacid.

DON'T CUT OUT A Shoe Boil, Capped Hock or Bursitis

FOR
ABSORBINE
TRADE MARK REG. U.S. PAT. OFF.

will reduce them and leave no blemishes. Stops lameness promptly. Does not blister or remove the hair, and horse can be worked. \$2.50 a bottle delivered. Book 6 R free.

ABSORBINE, JR., for mankinds, the antiseptic Uniment for Bolls, Bruises, Sores, Swellings, Varicose Veins, Allays Pain and Inflammation. Price \$1.25 a bottle at drugists or delivered. Will tell you more if you write.

W. F. YOUNG, INC., 268 Temple St., Springfield, Mass.

HOGS

O. I. C.'s. Bred sows and gilts, ready for service and open gilts. All at farmers' prices. Orders taken now for baby pigs. Prize winners. Utility stock. Cholera-immune. Registered in buyers name. Write for pedigrees and price list. Lone Elm Farm, EARLE R. MORRISH, R. 6, Flint, Mich.

O. I. C.'s. one yearling boar and last spring pigs, either sex not akin. Big growthy stock, 1/4 mile west of Depot, Citiz Phone. **OTTO B. SCHULZE**, Nashville, Mich.

O. I. C.'s. One yearling boar left, April and August pigs. **MILO H. PETERSON**, R. 2, Ionia, Mich. Elmhurst Farm.

L.T.P.C. \$15, \$20 & \$25

Our top notch stretchy boar pigs are weaned and ready to ship. They are sired by such boars as Harts Block Price Cline's Big Bob, Right Kind, Oldan and Leonard's Big Bob. **HART, FULCHER AND CLINE**, Address F. T. Hart, St. Louis, Mich.

LARGE TYPE POLAND CHINAS

Spring pigs of either sex. Sired by F's Clansman Grand Champion Boar 1920 and by Smooth Buster 1st. Jr. yearling 1920. Priced to sell. Write or see them. **A. A. Feldkamp**, R. 2, Manchester, Mich.

Big Type P. C. some very choice boars double immune, out 1100 lb. sire and mammoth sows from Iowa's greatest herds. **E. J. Mathewson**, Burr Oak, Mich.

Big Type Poland China Boars Ready for stretchy fellows. Grandsons of Gertsdale Timm, weighing better than 300 lbs., also spring pigs. Grandsons of Leonard Bib Bob. Satisfaction guaranteed. Call or write. **DORUS HOVER**, Akron, Michigan

Big type Poland China boars and gilts of April farrow. Also one yearling boar that is hard to beat. Prices right. **CLYDE FISHER**, R. 3, St. Louis, Mich.

L. S. P. C. a few choice boars at farmers prices, bred gilts all sold. Also a grandson of The Clansman and Harrison Big Bob. **H. O. SWARTZ**, Schoolcraft, Mich

Big Type Poland Chinas. A great litter by Checkers; big dam a granddaughter of Giant Buster, are for sale now. They were farrowed Mar. 11, in dam. Do you want the best the breed produces? Come over and see them. **Wesley Hille**, Ionia, Mich.

FOR SALE:—A wonderful yearling boar fine spring boars, fall pigs. Can satisfy your wants in anything from suckling pigs to Mature Herd boars and sows. Public Sale November 10th. **YOUNG BROS.**, Niles, Mich.

Leonard's Big Type boars of the kind that make a grand slaughter. Write for catalogue. **E. R. LEONARD**, St. Louis, Mich.

BIG TYPE Poland Chinas, leading strains at lowest prices. Both sex, all ages, and bred sows and gilts. **G. A. BAUMGARDNER**, R. 2, Middleville, Mich.

L. T. P. C. Nothing for sale at present. Thank to my customers. **W. J. HAGELSHAW**, Augusta, Mich.

P. C. swine, large type, March and Apr. pigs. Sired by "King Wonder", for sale, sent out on approval. **R. W. MILLS**, Saline, Mich.

LIVE STOCK AWARDS AT STATE FAIR.

(Continued from last week).

Berkshire.

Boar two years or over:—First, F. E. Kite, St. Paris, Ohio, on Ameliorator; 2nd, F. C. Foster, La Salle, Mich., on Champion Lady Successor; 3rd, Shuttleworth Bros., Ypsilanti, Mich.

Boar 18 months and under two years:—First, Kite on Successor's Boy 3rd; 2nd, Corey on Artful Barn Successor.

Boar twelve months and under 18 months:—First, Parker Bros., Niles, Mich., on Niles Champion; 2nd, W. H. Every, Manchester, Mich., on Mastodon's Duke; 3rd, Wm. Voisine, Hastings, Mich., on Voisius Star Master 2nd.

Boar six months and under twelve months:—First, Kite on Ameliorator's Best; 2nd, Parker Bros. on Baron the Great; 3rd, Kenneth Kite, St. Paris, Ohio, on Ameliorator, Jr.

Boar under six months:—First, Kite on Ameliorator's Majestic 2nd; 2nd, Every on Duke of Manchester 10th; 3rd, Every on Mastodons Duke.

Sow two years or over:—First, Parker Bros. on Manchester Rival Lady; 2nd, Kite on Successor's Lady 2nd; 3rd, Shuttleworth Bros.

Sow 18 months and under 2 years:—First, Kite on Paris Pride; 2nd, Parker Bros. on Champion's Helen 2nd; 3rd, Kite on Paris Pride 3rd.

Sow 12 months and under 18 months:—1st, Parker Bros. on Champion's Cedar Belle 2nd; 2nd, Parker Bros.; 3rd, Kite on Realty 2nd.

Sow six months and under 12 months:—First, Parker Bros. on Baron's Spring Floker; 2nd, Parker Bros. on Barn Successor's Bernice; 3rd, Parker Bros. on Champion's Roberta 2nd.

Sow under six months:—First, Tenny on Champion Springflower; 2nd, Tenny on Champion Pride; 3rd, Kenneth Kite on Matchless Amy.

Senior champion boar:—F. E. Kite on Ameliorator; reserve, F. E. Kite on Successor's Boy 3rd.

Senior champion sow—Parker Bros. on Champion Cedar Belle No. 2; reserve, F. E. Kite on Paris Pride.

Junior champion boar:—F. E. Kite on Ameliorator Best; reserve, Kite on Ameliorator Champion 2nd.

Junior champion sow:—Parker Bros. on Baron's Springflower; reserve, Ames on Champ Springflower.

Grand champion boar:—F. E. Kite on Ameliorator.

Grand champion sow:—Parker Bros. on Champion Cedar Belle No. 2.

Exhibitor's herd:—First, F. E. Kite; 2nd, Parker Bros.

Breeder's young herd:—First, Parker Bros.; 2nd, F. E. Kite; 3rd, Every. Get of boar:—First, F. E. Kite; 2nd, Parker Bros.; 3rd, Kenneth Kite.

Produce of sow:—First, Every on Mastodon's Duke 3rd.

Spotted Poland-China.

Boar two years or over:—First, Adam Alt, Rockford, Ohio, on Leopard; 2nd, S. A. Beam, Ansonia, Ohio, on Joe M.

Boar 18 months and under 2 years:—First, Beam on Beam's Giant; 2nd, Alt on Alt's Giant.

Boar 12 months and under 18 months:—First, Alt on Alt Big Ben; 2nd, Beam on Master Joe

Boar six months and under 12 months:—First, Beam on Highway King; 2nd, Alt on Alt Big King.

Boar under six months:—First, Alt; 2nd and 3rd, Beam.

Sow two years or over:—First, Beam on High Sunny Queen; 2nd, Alt on Lorna Doone; 3rd, Beam on Lorna Doone.

Sow 18 months and under two years:—First, Alt on Alt Style; 2nd, Beam on Rose; 3rd, Alt on Rockford Pride.

Sow 12 months and under 18 months:—1st, Beam on Junna Queen; 2nd, Alt on Lenora; 3rd, Beam on Junna Queen 2nd.

Sow six months and under 12 months:—First, Alt on Golden Rule 3rd; 2nd, Beam on U. S. Pride; 3rd, Beam on U. S. Pride 2nd.

Sow under six months:—1st, Beam; 2nd, Alt; 3rd, Beam.

Senior champion boar:—Alt; reserve, Beam.

Senior champion sow:—Beam; reserve, Alt.

Junior champion boar:—Beam; reserve, Alt.

Junior champion sow:—Alt; reserve, Beam.

Grand champ. boar:—Alt; reserve, Beam.

Grand champion sow:—Beam; reserve, Alt.

Exhibitor's herd:—First, Alt; 2nd, Beam; 3rd, Beam.

(Continued next week).



A pipe's a pal packed with P. A.!

Seven days out of every week you'll get real smoke joy and real smoke contentment—if you'll get close-up to a jimmy pipe! Buy one and know that for yourself! Packed with cool, delightful, fragrant Prince Albert, a pipe's the greatest treat, the happiest and most appetizing smoke-slant you ever had handed out!

You can chum it with a pipe—and you will—once you know that Prince Albert is free from bite and parch! (Cut out by our exclusive patented process!) Why—every puff of P. A. makes you want two more; every puff hits the bullseye harder and truer than the last! You can't resist such delight at any stage of the game!



Copyright 1921 by
B. J. Reynolds Tobacco Co.
Winston-Salem, N. C.

Prince Albert is sold in toppy red bags, tidy red tins, handsome pound and half pound tin humidors and in the pound crystal glass humidior with sponge moistener top.

PRINCE ALBERT

the
national
joy
smoke

O. I. C. HOGS

all ages sired by Callaway Edd 1918 world's grand champ. boar and C. C. Schoolmaster 1919 world's grand champion also Wonder Big Type and Giant Buster. Write your wants, all stock shipped on approval.

CRANDELL'S PRIZE HOGS,

Cass City, Mich.

Poland Chinas 3 high class boars 4 mo. old from daughter of Big Bob Mastodon. \$15 registered. **FERWOOD FARM**, Ewart, Mich.

Hampshire hogs should be on your farm, only a few spring boar pigs left, open gilts and fall pigs for sale. **JOHN W. SNYDER**, R. 4, St. Johns, Mich.

SHEEP

INGLESIDE SHROPSHIRE

During the past 30 years Ingleside Farm has produced over a 1000 Shropshires of sustained excellence, but never before have we been able to present to our ever-widening circle of satisfied customers such an attractive offering of Shropshires of all ages. In rams we have a strong assortment of lambs, yearlings and aged rams—splendid individuals of the choicest breeding obtainable. We have young ewes of quality for exhibition or foundation stock. We can supply 2 or 3 fitted flocks for show at county fairs. Write your wants—or better yet, come and inspect this stock personally.

H. E. POWELL & SON, IONIA, MICH

60 Head Registered Shropshire ewe and ram lambs also yearling rams good size and type. Priced to sell. Established 1890. **O. LEMEN**, Dexter, Mich

Idlewild Stock Farms offer for sale thirty Shropshire and Leicester rams. See our exhibit at Detroit, Jackson, Adrian, and Hillsdale Fairs. **O. J. MIDDLETON**, Proprietor, Clayton, Mich.

Kope-Kon Farms

Shropshire and Hampshire Sheep are of that quality and conformation that guarantees the sale each year of more than 200 Rams to the better farmers of Mich. The day of the scrub ram is past. Come to the farms eleven miles south of Coldwater and pick a good one at a reasonable price or we will ship and guarantee satisfaction. No fairs this year. **S. L. WING**, Coldwater, Mich.

Maple Lawn Farm Shropshires, rams and ram lambs of choice breeding. Woolled from nose to toes. **A. E. BACON & SON**, Sheridan, Mich.

Shropshires 7 yearling rams also ram and ewe lambs. Buttar and Senator Bib. by breeding. **C. J. Thompson**, Rockford, Mich

The Maples Shropshires

For Sale. Extra well bred yearling Rams, also 2 yr. old stock ram sired by a Broughton Ram. Will sell a few good ewes and several Duroc Jersey spring boars. Brookwater bred. Write your wants early.

C. R. LELAND, R. 5, Ann Arbor, Mich.

Shropshires—Yearling and lamb rams with quality. Sired by an imported Winton ram. Write for prices and description. **W. B. McQuillan**, Howell, Mich.

Registered Shropshire Rams Priced to sell. **Dan Booher**, R. 4, Ewart, Mich

Straight Brook Hampshire Downs For Sale: 30 yearling rams, 30 ram lambs including real flock headers. We also have to offer ewes of all ages. **J. B. Welsh**, Mgr., **STRAIGHT BROOK STOCK FARM**, R. 1, Ionia, Mich.

Reg. Hampshire Rams all ages. Bred and priced right. Also reg. ewes all ages. **W. W. CASLER**, Ovid, Mich

For Sale Oxford rams and ewes all ages priced to sell. Write your wants. **GEO. T. ABBOTT**, R. 2, Palms, Mich. Tel. Deckerville 78-3.

For Sale Oxford rams and ewe lambs. Stock registered. Priced right. **H. W. MANN**, Dansville, Mich.

OXFORD RAMS Any age, priced right. **Earl O. McCarty**, Bad Axe, Mich.

FOR SALE 30 yearling Delaine Rams; at farmers prices. **CALHOON BROS.**, Bronson, Mich

Ramboulet Rams. None better bred. At farmers price. **J. M. EAGER**, R. 6, Howell, Mich.

HORSES

FOR SALE A Carload of Grade Draft Colts. **CHARLES BRAY**, Okemos, Ingham Co., Mich.

LATEST MARKET REPORTS

GRAIN QUOTATIONS

Tuesday, September 27.

Wheat.

Detroit.—Cash No. 2 red \$1.27; No. 2 mixed \$1.24; No. 2 white \$1.24.
Chicago.—No. 2 red \$1.24@1.26; No. 2 hard \$1.24; September \$1.23½.
Toledo.—Cash No. 2 red \$1.31; September \$1.31; December \$1.35.

Corn.

Detroit.—Cash No. 2 yellow 55c; No. 3 yellow 54c; No. 4, 51c.
Chicago.—No. 2 mixed 51¼@51½c; No. 2 yellow 51¼@52c.

Oats.

Detroit.—Cash No. 2 white 40c; No. 3 white 37½c; No. 4, 31½@33½c.
Chicago.—No. 2 white 36@37c; No. 3 white 33¼@34c.

Beans.

Detroit.—Immediate and prompt shipment \$4.40 per cwt.
Chicago.—Choice to fancy hand-picked Michigan beans \$5.10@5.25; red kidney beans \$11.
New York.—The market is steady. Choice pea \$5.50; do medium \$5.50; kidney \$11.75@12.

Rye.

Detroit.—Cash No. 2 \$1.00.
Chicago.—No. 2 \$1.00½.
Toledo.—Cash \$1.01.

Seeds.

Detroit.—Prime red clover, cash and October \$12.50; alsike \$10.50; timothy \$2.75.
Toledo.—Prime red clover \$12.80; alsike \$10.75; timothy \$2.50.

Hay.

Detroit.—No. 1 timothy at \$20@21; standard and light mixed at \$18@20; No. 2 timothy \$18@19; No. 1 clover mixed \$15@16; No. 1 clover \$14@15; rye straw \$13.50@14; wheat and oat straw \$12@12.50 per ton in carlots at Detroit.

Feeds.

Detroit.—Bran \$21; standard middlings \$23; fine middlings \$28; cracked corn \$28; coarse cornmeal \$25; chop \$22 per ton in 100-lb sacks.

WHEAT

The thought of the possibility of a wheat shortage before the 1922 crop is harvested was disturbed last week by reports indicating that this situation was less critical than supposed. The Department of Agriculture in a summary of wheat yields gave the total for twenty countries in 1921 at 2,490,609,000 bushels. This compares with an average yield for the five years 1909 to 1913 of 2,330,150,000 bu. This list of countries includes all the important exporters except Russia.

CORN

Receipts of corn remain unusually large and prices declined to a new low mark. Chicago prices are not far from the fifty-cent mark and there is little prospect of an advance in values for a number of weeks. Argentine prices are relatively lower than American.

OATS

The visible supply of oats at terminal markets is fully one-third larger than ever known before. This situation is due to the heavy carry-over of old oats and to extremely rapid sales following harvest. The light crops point to considerably higher prices later on but it will be difficult to advance prices as long as the large supply is in sight.

HAY

Unsatisfactory prices to shippers everywhere, and rains in the northwest have reduced the movement of hay. Demand is still limited and calls for the better grades almost exclusively. Prices show little net change.

SEEDS

Owing to low prices for alfalfa hay, it is expected that a liberal acreage will be cut for seed and that the total yield will be larger than in 1920. Clover and timothy seed receipts are large but have been well absorbed for the most part with little net change in prices.

FEEDS

Demand for wheat feeds is light and prices are slightly lower. Linseed meal also shows weakness, while cottonseed meal is slightly higher. Both of the latter are in rather strong statistical positions on account of light crops of cotton and flax but they are already priced considerably higher

than other sources of protein. Gluten feed declined sharply in the last week.

WOOL

With the exception of two weeks ago, there has been a rather steady demand for a moderate volume of wool for over two months. Practically all grades are being purchased, whereas several months ago only fine wools were wanted. Foreign auctions show a firm tone, although no new advances have been reported. Although most of the woolen mills are operating at a normal rate upon advance orders for woolen goods, the clothing manufacturers report that retail demand is not altogether satisfactory.

POULTRY AND EGGS

In spite of the usual seasonal increase in the supply of poultry, prices remain high as compared with other meats. Jewish holidays in the next few weeks at which time well-finished poultry usually is in strong demand come on the following days: October 3-4, October 13-14, October 19-20, and October 23-25. Egg prices have had a sharp advance recently which has been well maintained. The outlook for the fall and winter egg market is fairly attractive to producers, especially since feed costs are so low.

Detroit.—Fresh firsts 33@38c; poultry, spring chickens 23@24c; hens general run 24@25c; roosters at 13@14c; ducks 20@22c; geese 15c; turkeys 30c.
Chicago.—Eggs fresh firsts 35½@37c; ordinary firsts 30@31c; poultry, spring chickens 22c; hens general run 26c; roosters 17c; ducks 25c.

BUTTER

Butter markets advanced slightly last week although the gain was limited to grades scoring ninety or more. Undergrades show little change in price but have accumulated on the principal distributing centers and are

comparatively weak. Supplies are larger than at this time last year but the addition to cold storage stocks has not been large. Prices for 92-score fresh butter were: Chicago 43c; New York 43½c. In Detroit fresh creamery in tubs sells for 37c.

FRUITS & VEGETABLES

Potato shipments for the entire country decreased nearly 30 per cent in the last few days and prices advanced slightly although they are still slightly lower than a week ago. Northern round whites at shipping points are bringing \$2@2.15 per 100 pounds sacked. Shipments of apples are averaging about 2,000 cars per week for the entire country. Eastern markets are slightly higher with A-2½ Wealthys quoted at \$8@9.50 in consuming markets. A-2½ Baldwins are bringing \$6.00 per barrel at New York shipping points.

GRAND RAPIDS

Some of the best potatoes offered on the Grand Rapids markets this season were sold in the Furniture City this week at \$1.25@1.40 a bushel. Receipts were quite heavy. Quotations were as follows:

Vegetables.—Potatoes \$1.25@1.40 a bu; dry onions \$1.25@2 per cwt; celery \$1@1.50 box; cabbage 75c@1 bu; carrots \$1 bu; turnips \$1 bu; Hubbard squash \$1 bu; tomatoes 50@80c.

Fruit.—Apples, Greenings, Northern Spies, Baldwins, grading A-1, \$1.50@2 bu; other A-1 varieties \$1.50 per bu; windfalls and ciders 50c@1.25 a bu; Smock peaches \$3@4 bu; winter pears \$1@1.50 bu; grapes \$2.50@4 bu; canteloupes \$1@2 bu; watermelons \$1@3 dozen.

GREENVILLE POTATO MARKET.

Potatoes are lower; No. 1 white at \$1.50@1.75 per cwt.

Live Stock Market Service

Wednesday, September 28.

DETROIT

Cattle.

Receipts 341. Market very dull.
Best heavy steers \$ 7.00 @ 7.25
Best handy wt bu steers 7.50 @ 7.75
Mixed steers and heifers 5.50 @ 6.10
Handy light butchers 4.75 @ 5.00
Light butchers 4.00 @ 4.50
Best cows 4.50 @ 5.50
Butcher cows 3.75 @ 4.00
Common cows 2.50 @ 3.00
Canners 1.50 @ 2.00
Best light weight bulls... 4.75 @ 5.00
Bologna bulls 4.00 @ 4.50
Stock bulls 3.00 @ 4.00
Feeders 5.00 @ 5.50
Stockers 3.00 @ 5.00
Milkers and springers... \$ 45 @ 80

Veal Calves.

Receipts 353. Good grades steady. common and heavy \$1 lower.
Best \$13.00@14.00
Others 10.00

Hogs.

Receipts 1,954. Market is 15@25c higher.
Mixed hogs \$8.50
Heavy hogs 7.25
Pigs 8.25

Sheep and Lambs.

Receipts 2,576. Lambs steady to 25c higher.
Best lambs \$ 8.25 @ 8.50
Fair lambs 7.00 @ 7.50
Light to common 4.50 @ 6.00
Fair to good sheep 3.00 @ 3.75
Culls and common 1.50 @ 2.00

CHICAGO

Hogs.

Estimated receipts today are 14,000; holdover 8,137. Market 15@25c higher. Bulk of sales \$6.50@8.30; tops at \$8.50; heavy 250 lbs up medium, good and choice \$7.50@8.30; medium 200 to 250 lbs medium, good and choice at \$8.50; light 150 to 200 lbs common, medium, good and choice \$7.50@8.40; light lights 130 to 150 lbs common, medium, good and choice at \$7.35@8; heavy packing sows 250 lbs up smooth \$6.50@7.15; packing sows 200 lbs up rough \$6.25@6.50; pigs 130 lbs down medium, good and choice \$7@7.75.

Cattle.

Estimated receipts today are 10,000. Market 30@50c higher. Beef steers medium and heavy weight 1100 lbs up choice and prime \$10.40; do medium and good \$5.85@9.15; do common \$5@5.85; light weight 1100 lbs down good and choice \$6.35@10.75; do common and medium \$4.75@8.35; butcher cattle, heifers, common, medium, good and choice \$3.75@8.75; cows common, medium, good and choice \$3.50@6.75; bulls bologna and beef at \$3.75@6.75; canners and cutters cows and heifers \$3.15@3.50; do canner steers \$3@3.50; veal calves light and handyweight medium, good and choice \$7.50@12.50; feeder steers common, medium, good and choice \$4.65@6.50; stocker steers common, medium, good and choice at \$3.75@6.50; stocker cows and heifers common, medium, good and choice at \$3.25@4.75.

Sheep and Lambs.

Estimated receipts today are 20,000. Market steady. Lambs 84 lbs down, medium, good, choice and prime \$7.25@8.85; do culls and common \$4.50@7; spring lambs medium, good, choice and prime \$4.75@7; ewes, medium, good and choice \$3@4.75; ewes cull and common at \$1.50@2.75; breeding ewes full mouths to yearlings \$3.25@6.25; yearling wethers medium, good and choice \$6@7.25.

BUFFALO

Cattle.

Receipts 20 cars. Slow and 50c lower; shipping steers \$8@9.50; butchers \$7.50@8.50; yearlings \$9@10; heifers \$4.75@7.50; cows \$1.50@5.25; bulls \$3@5.50; stockers and feeders at \$5@5.50; fresh cows and springers at \$45@130. Calves, receipts 2,800; market steady at \$5@14.50.

Hogs.

Receipts 20 cars. Market is stronger; heavy mixed yorkers, light do and pigs \$8.60; few at \$8.65; roughs \$6@6.25; stags \$3.50@4.50.

Sheep and Lambs.

Receipts five cars. Market strong; mixed sheep 25c higher; lambs \$4@9.75; yearlings \$6@7; wethers \$5.45@5.50; ewes \$4@5; mixed sheep \$4.50@5.25.

NEWS OF THE WEEK.

(Continued from page 302).

eral weeks.—Miss Mary Hazlett, of Regina, Saskatchewan, quit stenography to farm and is now wealthy.—President Harding formally nominates Major-General Leonard Wood as governor-general of Philippine Islands.—The War Finance Corporation loans the cooperative grain growers of Minnesota \$15,000,000 to aid in marketing 1921 crops.—Flint has the lowest death rate of any large city of Michigan.

Monday, September 26.

GUS LEONARD, well-known weather prophet of Taunton, Mass., says the winter is going to be a normal one because the chickens' pin feathers and cornhusks are normal.—A decrease of 634 men employed during the week ending September 20 is reported by the Employers' Association of Detroit.—It is reported that 44,000 Spaniards have been killed or wounded in a ten-day battle with the Morrocoans.—Too much love making in the Philadelphia schools has caused the law makers there to forbid any courting of school girls under penalty of a fine or one hundred days' imprisonment.—Discarded straw hats are a real problem to New York hotels, over three thousand having been left in hotel rooms in the last ten days.

MAKE BIG MONEY TRAP FOR

Taylor
BEST FOR FIFTY YEARS

Big Fur Year Ahead

Our Free Book of Traps furnishes experience. Tells when, where and how to trap, quotes lowest prices on traps, baits, other supplies. A post-card will bring it. Write today.

Big fur money on every farm. A good night's work will yield big returns. Follow the lead of every "Old Timer" and deal with this big reliable, fifty-year-old house.

F.C. TAYLOR FUR COMPANY
240 Fur Exchange ST. LOUIS, MO.

U.S. GOVT. WOOL BLANKETS

Cost the Government
About \$6.50 Ea.

\$2.95

All brand new and perfect. Heavy grey or tan. Weight from 4 to 6 lbs. Size about 60x84. Fit full sized beds—fine for camping, etc. Orders shipped immediately, parcel post prepaid. Money back if not satisfactory.

GALLANT MERCANTILE CO.
510 S. Wabash Avenue Chicago

A Big Cut On
ROSS
Improved Feed Mill

Back To Pre-War Prices



Ross Duplex Mills now priced from \$26 to \$110—formerly \$33 to \$138. Lowest price in 5 years. New credit plan—your profit from mill handles payments. You need a feed mill this year, and here's your chance to get the guaranteed ROSS Duplex Mill at a bargain. Less power, less speed, larger capacity, mean lower upkeep cost and perfect grinding. Self-conforming grinding burrs, double hand screw burr regulator, self-sharpening upper crushers and upper force feed, are all special ROSS features. Write for catalog, easy payment plan and low pre-war prices. The E. W. Ross Co., Dept. B, Springfield, O.

BIG DROP IN PRICES

on
**Fencing
Gates
Steel Posts
Roofing
Paint**

Send your name to Jim Brown right away and get his big 96-page Bargain Book. Save 25 per cent. or more by buying direct from factory, freight prepaid. Special 30 days Sale means bigger savings than ever.

**DIRECT FROM FACTORY
FREIGHT PREPAID**

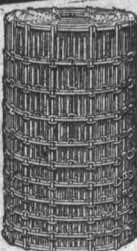
Over 600,000 farmers have bought from Jim Brown. Thousands write "Saved \$300" "Saved \$500" "Saved \$120." You too can save on highest quality double-galvanized fencing, gates and steel posts. Also on guaranteed roofing and paints. All direct to you, freight prepaid.

**FREE BIG 96-PAGE
SALE BOOK**

Don't miss this book. Don't buy a dollar's worth of goods until you get the sensational money saving prices quoted in the 96 pages. Just send your name on a post card now. Address Jim Brown, Pres.

The Brown Fence & Wire Co.
Dept. 7549 Cleveland, Ohio

**30 DAY
CUT
PRICE
CATALOG**

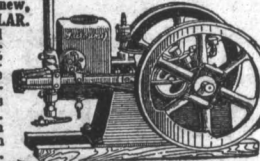


GALLOWAY BREAKS PRICES ON ENGINES

\$34.90
1 1/2 H.P.



CUT-PRICE CIRCULAR.
Prices are a good fair exchange for present prices of grain and live stock. Your dollars go twice as far. 30 days' trial. Satisfaction guaranteed. Cash or Easy payment.



Ford Owners WANTED

To introduce the **CATARACT** Circulating Water Pump for Ford cars and trucks.

Positively prevents overheating, freezing and 90% of all Ford engine troubles. Makes used Fords run like new—keeps new Fords new. Doubles power, flexibility and life of any Ford car or truck. Ford owners buy eagerly. They are anxious to get one of these wonderful pumps. Sold on FREE trial money back guarantee.

FREE Cataract Pump for Your Ford
Cataract agents make from \$75 to \$150 a week. All you have to do is put a CATARACT on YOUR Ford and accept big, profitable business day after day. No limit to the money that you can make. Write for illustrated literature and AGENTS proposition—TODAY.

Cataract Manufacturing Co.
5924 Fifth St. :: Milwaukee, Wis.

MEN WANTED

Mechanically Inclined
—to send for my big illustrated 72-PAGE **Free!** BOOK—

It tells how in a few weeks you can earn from \$150 to \$400 a month in the Auto and Tractor business.

I PAY Will rebate railroad fare from any point in the United States to Kansas City.

JOBS OPEN. Sweeney trained men in demand. See list of jobs. Learn 7 good trades in 8 weeks. No previous experience necessary. Use tools not books. Simply send name and address today, a post card will do. For Free book and 27 photographic reproductions of machine shop work, etc. in world's largest and finest trade school. **Let's Go—Write Now!**

Learn a Trade—Sweeney
SCHOOL OF AUTO-TRACTOR-AVIATION
67 SWEENEY BLDG. KANSAS CITY, MO.

For Sale. 5 thoroughly broken beagle and rabbit hounds, good hunters and not gun shy. **AMBROS & TAYLOR**, West Chester, Pa.

GENERAL CROP SUMMARY.

RECENT crop conditions are covered in reports received by the Bureau of Markets and Crop Estimates, United States Department of Agriculture, from its field statisticians in the different states.

Corn.—The corn crop has continued to mature well and the great bulk of the crop is now out of danger of damage from frosts. The yield and quality of the crop are generally very good and in many sections are reported to be considerably above average. Cutting for silage has made excellent progress and is nearly completed and considerable corn has already been cut for grain. Rain has delayed cutting in Missouri and some corn already cut is reported to be molding in the shock. Drought has curtailed the yield in the South Atlantic states, especially of early corn.

Wheat.—Plowing and preparation of the soil for seeding winter wheat has made excellent progress and considerable seeding has been done. The wet soil is delaying seeding in Missouri, while more moisture is needed in the eastern states and in Oregon. Seeding will soon be in full progress in Illinois and Indiana, as the menace of the Hessian fly is diminishing.

Rain is interfering with the threshing of spring wheat in Minnesota and North Dakota. The quality of the crop is fair to good in Wyoming but the yield is reported to be less than usual.

Potatoes.—Late Irish potatoes continue to improve slightly throughout the northern and central tiers of states since the recent rains, but thin stands and small settings of tubers, due to the long summer drought, will seriously curtail the yield. Prospects in the far western states are quite favorable and no damage is reported from the recent frosts. Late potatoes are suffering from drought in the South Atlantic states.

Fruit.—The apple crop is maturing unusually early and picking is in progress in many sections. The yield throughout the eastern and central states is very poor, but a fair to good crop is generally indicated in the far western states. A good crop of prunes is being harvested and shipped in Idaho, and a good crop of pears is also reported in farm orchards. Citrus fruits show the need of rain in Florida.

Live Stock, Hay and Pastures.—There are some scattered reports of hog cholera but in general all classes of live stock are in good condition. There is a good demand for stock for feeding. Many grass-fed cattle are coming to market in Kansas.

Some third cuttings of alfalfa are in progress with good yields reported. Cowpea and soybean hay crops are yielding satisfactorily and generally being cured under favorable conditions. New seedlings of clover, that survived the drought, are doing very well. Alfalfa seed is being harvested with very good yields noted. Pastures and meadows are generally very good except in the South Atlantic states where rain is needed.

VEGETABLE GROWERS' ANNUAL MEETING.

THE Vegetable Growers' Association of America will hold its annual meeting in Albany, New York, November 1 to 5, 1921. The program this year will be more elaborate than heretofore. There will be general sessions at which some of the biggest men in their respective lines will give addresses. In addition there will be two half-day sessions of sectional meetings which will cover the following interests:

Market Gardening and Truck Growing; Vegetable Forcing; Muck Crops; Canning Crops.

In addition to the program there will be an exhibit which will comprise tractors, garden tools, seeds, fertilizer, greenhouse material, etc. Special entertainment will be provided. A special trip will be made from Albany to New York City to visit the principal wholesale and retail markets.

Anyone wishing to learn more regarding the convention should write to C. W. Waid, Organization Secretary, care the Ohio Farm Bureau Federation, Franklin Building, Columbus, Ohio. Programs will be mailed about the middle of October.

Wooden Tongue.—I have a steer that is troubled with swollen tongue, and our veterinary calls it "wooden tongue." F. P., Brooklyn, Mich.—Actinomycosis, also known as lumpjaw, big jaw, or wooden tongue, are all the result of same infection, "ray fungus." Apply tincture of iodine to tongue, occasionally; also give full doses of potassium iodide, which is the best treatment.



**MUTUAL
AUTOMOBILE
INSURANCE COMPANY**

The Farmer's Own Company

A \$2,500 CRASH

He had driven his car for 4 months without mishap of any nature. In fact: this farmer was noted for his good judgment and level headedness. But the crash came. A collision of such consequence that he was compelled to pay \$2,000 Liability Damages for severely injuring the driver of the other machine, besides having to repair his own car at another \$500 expense.

Wisely

he had secured automobile insurance about 2 months ago and his claims covered every cent.

Are You Protected?

If you haven't already done so, Investigate U. S. Mutual Full Coverage 5 Point Policy Protection against:

1. Fire
2. Theft
3. Collision
4. Property Damage
- and
5. Liability

The nominal cost of \$1.00 per Horse Power plus the annual fee of \$1.00 covers all.

Colonel A. H. Gansser

will tell you all about U. S. Protection. Your postal is all that is necessary.

U. S. Mutual Automobile Insurance Company

Executive Office

Grand Rapids, Michigan

Colon C. Lillie, Pres.

Home Office, Bay City, Michigan

F. F. McGinnis, Sec. and Treas.

Col. A. H. Gansser, Director and Gen. Mgr.

DETROIT FAIR GROUNDS CONSIGNMENT SALE OCTOBER 18, 1921

Seventy Head of high class Registered Holsteins

Among them a 33 lb. bull by a 31 lb. sire. The best bull ever bred by Wabeek Farms, also 8 wonderful yearling heifers sired by Maplecrest DeKol, full brother to Daisy Grace DeKol. About 12 young heifers consigned by John F. Ohara. All being from good sires and, dams some sired by a son of King of the Pontiacs. All are from Tuberculin Tested herds and will be sold with a 60 to 90 days guarantee.

Write to

E. A. HARDY, Rochester, Mich.
for catalogues.



DO YOU WANT TO BECOME AN AUCTIONEER?

and a Better Judge of Live Stock and Pedigrees and earn from \$10.00 to \$500.00 per day? If so, send for FREE illustrated catalogue of Col. Reppert's Auction School. The instructors are all men of national reputation. Col. Reppert will personally instruct each student. Term opens January 2nd 1922. Address

REPERT SCHOOL OF AUCTIONEERING, P. O. Box No. 30, DECATUR, INDIANA
Please mention this paper when writing for catalogue.

FurNews-free
Most complete, reliable, up to date fur market report from St. Louis—free. Just send postcard with name and address. Always ship to
Pioneer Fur Co.
131-33-35 N. Commercial, St. Louis, Mo.
Where you get most for your furs



Eggs
Our trade on fancy poultry farm eggs is increasing daily. Therefore we are in a position to pay liberal premiums above the Chicago market for fine new laid stock.
We solicit your shipments. Ship via Express
AMERICAN BUTTER & CHEESE COMPANY.
2034 Howard St., Detroit, Mich.

HAY Ship To The Old Reliable House
GEO. E. ROGERS & CO.,
601 Wabash Bldg., Pittsburgh, Pa.

HAY SHIPPERS. for highest prices bill all cars to
The E. L. RICHMOND CO., Detroit.

HARDWOOD ASHES AT PRE-WAR PRICES
Have been instructed by the Ash Gatherers of Ontario to sell 30 cars of 30 tons each. It will pay you to buy a car at once and store till spring.
Geo. Stevens, 364 Mark St., Peterborough, Ont. Can.

FARM HELP

POSITION WANTED

Jan. 1, 1922, on pure bred stock farm, by married man. Life experience with stock, and general farming. Would superintend place of less than 200 acres. No dairyman. **D. N. Chamberlin, Flat Rock, Mich.**

Wanted Man who knows how to care for pure bred beef cattle, hogs, and sheep to work a 210 acre farm in southern Ohio. Salary or shares. **STEEN FREEMAN, Wamsley, Ohio.**

Wanted Position by Married Man 34 that would take care and help with all kinds of stock, good milker, good location. **A. LODER, 1415 Belle Ave., Flint, Mich.**

HARRIS BROTHERS CO.

announce a price smashing sale!

BUY NOW AT 1913 PRICES!!

Galvanized Roofing

Prices Cut in Half!!

FREIGHT PREPAID



This sale brings you world's greatest roofing values in all dependable grades. Buy quickly and liberally. These prices are freight prepaid to Illinois, Indiana, Ohio, Iowa, Michigan and Wisconsin. Ask for freight prepaid prices to other states.

No. NA-1—Reconditioned corrugated galvanized roofing and siding per square.....\$3.00

Painted Corrugated Sheets

No. NA-2—Overhauled, painted corrugated sheets per square.....\$2.25

Rubber Roofing Per Roll \$1.00

No. NA-3—Durable Ajax brand, medium weight rubber roofing. Rolls contain 108 sq. ft. including nails and cement, per roll.....\$1.00

Wall Board Per Square \$3.00

No. NA-4—Splendid new wallboard for partitioning, per square.....\$3.00

SAMPLES ON REQUEST—Get full particulars of our complete line of roofing bargains—slate coated shingles, rawhide and gold medal roofing, material, shingles, etc.

Government Camp Material!!

Splendidly equipped camps purchased by us

Great Lakes Naval Station
At this point we purchased Camp Perry and Camp Dewey, two of the government's best equipped training camps. Mark coupon for complete list.

Camp Shelby, Hattiesburg, Miss.
Our sale at this point, covers building material and general supplies of every description. Mark coupon for complete list now.

Camp Merritt, Tenafly, N. J.
Enormous quantities of lumber and building material of every description are now being sold from this camp. Mail coupon for complete list today.

Gerstner Field, Lake Charles, La.
Our sale of building material and supplies from this point is now progressing. Mail coupon for complete list without fail.

GOOD LUMBER Thousand Feet B.M. \$14.00

Millions of feet of splendid lumber is now on sale at the government camps above. Sound, thoroughly seasoned material, with nails drawn—not clipped off. Send us your lumber bills for money saving estimates. Here are some of the big savings.

Lumber per 1000 ft.....\$14.00

Panel doors, each.....1.50

Sash doors, each.....1.25

Sash frames, each......75

12 light windows, each..\$ 2.50

Wallboard, per square... 1.75

Slate coated roofing per roll.....1.50

Closet outfits, complete. 23.50

One-piece sinks, complete 13.50

MAIL COUPON for Complete Camp Material Book, TODAY!

Govt. BARBED WIRE

BIG REDUCED PRICES!

\$1.45 PER REEL

Heavy and Durable!



Bought by us from the Government at much less than cost of manufacturers best stock; made of 12 gauge open hearth steel wire, with 4 point barbs, 3/8 in. long, spaced 3 in. apart.

Greatest Values Ever Offered

Coated with special weather resisting paint, and put up in 58 lb. reels, containing about 700 ft., also 112 lb. reels, containing about 1400 ft.

No. NA-5 58 lb. Reel 112 lb. Reel

625 reels or more, per reel.....\$1.45 \$2.90

100 reels or more, per reel.....1.50 3.00

50 reels or more, per reel.....1.55 3.10

25 reels or more, per reel.....1.60 3.20

Less than 25 reels, per reel.....1.65 3.30

No. NA-6—Galvanized barbed wire from our Government purchase, in catch weight reels, about 100 lbs. (about 1 lb. to rod); 4 point barbs, spaced 3 in. and 5 in. apart. Per 100 lbs.....\$3.95

No. NA-7—Galvanized wire, smooth, new, bright stock, six or nine gauge, continuous lengths; bundles of about 100 lbs., each.....\$3.95

World's Famous Watts Corn Shellers

\$85

Deep Cut Prices Now!



Now Buys This Complete Sheller As Shown

Watts No. 4-A Corn Sheller. No. NA-11. This is the famous Watts No. 4-A Corn Sheller, fitted complete with cleaning system, cob stacker, grain elevator and automatic feeder as shown, a splendid outfit—capacity 75 to 125 bushels per hour, with a 4 to 6 H.P. Engine. Sale price, complete.....\$85.00

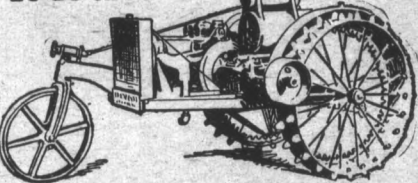
Watts No. 1—\$30.00
No. NA-8—For the man who shells corn for his own use, capacity 50 to 75 bu. per hour, with a 3 H.P. engine.
Watts No. 4—\$65.00
No. NA-9—With cleaning system, cob stacker, and grain elevator, with this machine, you can shell for yourself and a few neighbors.
Watts No. 7—\$266.00
No. NA-10—With standard equipment, including wagon box, grain elevator, cob stacker, type "R" feeder on steel trucks; capacity 200 bushels per hour. 3% cash discount allowed, if ordered direct from this ad.

Genuine Allis-Chalmers Farm Tractors

Reduced \$360

You Save More Than Half!

10-18 H.P.



This is your one big chance to own a famous Allis Chalmers Farm Tractor. This great offer means that you get a complete tractor at less than the price of a reputable gas engine of equal power. A fortunate purchase recently makes this remarkable offer possible.

Easy Time Payments

Buy on your own terms. We will arrange to extend the payments for a reasonable period. Details of payments can be attended to, while your tractor is being prepared for shipment.

A Double Guarantee

With each Allis Chalmers Farm Tractor, we give you our well known "money back guarantee" which assures you of satisfaction, and Allis Chalmers guarantee, which protects you forever against defects in material and workmanship.

Excellent Construction

Allis Chalmers 10-18 H.P. Farm Tractors, rebuilt to give best service under most severe conditions. A strong, durable machine for pulling plows, harrows, binders, wagons, etc.—will do all kinds of work, taking the place of 8 horses. Maximum power for its weight. Few parts, easily accessible, best material—strength and efficiency combined.

Guaranteed Paint!

CHOICE OF 26 COLORS

Per Gallon \$2.05

FREIGHT PREPAID!

to Ill., Ind., Ohio, Iowa, Mich., and Wis. Best formula, won't peel, blister, fade, or rub off. White black and twenty-six non-fading colors. Put up in containers of one to fifty gallons.

No. NA-17. Per gal. freight prepaid \$2.05

Guaranteed Barn Paint

No. NA-18. Guaranteed barn paint, red, yellow or maroon, per gallon, freight prepaid.....\$1.40

No. NA-19. Green slate or red, per gallon \$1.70

Ford Power Attachment!

No. NA-19. Quickly and easily attached to Ford automobiles. No tools necessary. Operates any machine from one to 15 H.P. All steel, fully guaranteed. Price.....\$15.75

Guaranteed Plumbing!

GUARANTEED PLUMBING!

Sink Outfit COMPLETE \$15.00

No. NA-20. Consists of best force pump, made with 2 1/2 in. brass lined cylinder with air chamber—back outlet to pump water to floors above. Cast iron porcelain enameled sink with nickel plated strainer, and 1 1/2 in. lead "P" trap. Sink brackets, outfit complete.....\$15.00

Bathtub \$28.75

No. NA-21. White porcelain enameled inside and over 8 in. roll rim. Size 5 ft. long, and 30 in. wide. Fitted with nickel plated double compression bath cock, connected waste and overflow supply pipes.....\$28.75

LAVATORY \$15.30

No. NA-22. White porcelain enameled one-piece deep apron lavatory, size 18 x 21 in. indexed nickel plated faucets "P" trap and supply pipes. Price.....\$15.30

CLOSET OUTFIT \$29

No. NA-23. Closet outfit including white vitreous china tank, and wash down bowl. Highly finished mahogany seat and cover. Complete.....\$29.00

Brand New Building Material

Shipped Right From Chicago Plant

Guaranteed EASY-BUILT READY-CUT Houses!

\$748 Buys the Material to Build This Fine 4 Room Cottage with Porch

First class material throughout—everything furnished direct from our big stock of lumber and building material, here at Chicago. If you are handy with a saw, hammer and level, you can build it yourself. Now is the time to start! Hundred other designs and sizes to select from. Mail coupon for free book of house plans now.

LUMBER--DOORS--WINDOWS--MILLWORK

Big stock in Chicago always on hand.

No. NA-12. 3/4 x 4 Clear Spruce bevel siding, standard lengths, per 100 ft.....\$3.75

No. NA-13. Drop siding, clear Oregon fir, 5/8 x 6, pattern 106, reg. lengths per 100 ft. \$3.60

No. NA-14. Clear Oregon fir, ceiling, 3/4 in. x 5 in. tongued and grooved. Beaded, reg. lengths, per 100 ft.....\$3.75

Warehouse full of finest doors and windows.

No. NA-15. 2, 3 and 5 panel clear fir doors 1 3/4 in. thick. Size 2 ft. x 6 ft. to 3 ft. x 7 ft. Priced from \$2.71 to \$4.49

GARAGES—Our patented Presto-Up Bolt-together garages, are the world's wonder of the age, easily put up by anyone. All painted and ready to bolt together. \$117.00 and upwards.

Cream Separators!

Low Prices! Easy Terms!

375 lbs. \$55.50 per hour

FREE TRIAL!

Our famous Cream Separators, have made a wonderful record in all sizes—all seasons of the year in all parts of the country, patented exclusive improvements everywhere.

Fully Guaranteed

Full guaranteed to give complete and lasting satisfaction.

Size No. Cap'y lbs. Sale Price

*1 175 \$34.95

*2 250 \$38.90

*3 375 \$55.50

*4 500 \$59.95

*5 750 \$68.00

*6 950 \$75.00

* Indicates table sizes. All machines ready for shipment from Minn., Pa. and Chicago. 3 per cent discount allowed if cash is sent with order.

These separators are equal to any machine on the market, regardless of name, make, or price. Fully guaranteed in every respect.

GUARANTEED PLUMBING!

GUARANTEED PLUMBING!

Sink Outfit COMPLETE \$15.00

No. NA-20. Consists of best force pump, made with 2 1/2 in. brass lined cylinder with air chamber—back outlet to pump water to floors above. Cast iron porcelain enameled sink with nickel plated strainer, and 1 1/2 in. lead "P" trap. Sink brackets, outfit complete.....\$15.00

Bathtub \$28.75

No. NA-21. White porcelain enameled inside and over 8 in. roll rim. Size 5 ft. long, and 30 in. wide. Fitted with nickel plated double compression bath cock, connected waste and overflow supply pipes.....\$28.75

LAVATORY \$15.30

No. NA-22. White porcelain enameled one-piece deep apron lavatory, size 18 x 21 in. indexed nickel plated faucets "P" trap and supply pipes. Price.....\$15.30

CLOSET OUTFIT \$29

No. NA-23. Closet outfit including white vitreous china tank, and wash down bowl. Highly finished mahogany seat and cover. Complete.....\$29.00

HEATING SYSTEMS!

Our Big Complete Stock Offers Best Material at Low Prices!!

A rough pencil sketch of your home, showing size of rooms, height of ceiling, number and size of doors and windows, is all that we need to estimate a heating plant for your building, that will give you greatest comfort—efficient and economical service.

Steam--Hot Water--Warm Air!

Our big complete stock of all material required for the installation of a steam, hot water or warm air heating plants is assembled from big purchases of heating material, which come to us at substantial reductions from regular prices. In addition to low prices, we offer the intelligent services of experienced engineers, who will help you make a correct decision on the heating plant for your home, and the most economical way to install it. Mark the coupon for a heating proposition now.

PIPELESS FURNACES!

Double Casing \$85.00

Re-Circulating System!

We offer the world's best pipeless furnace proposition. Splendid single register heating system, quickly and easily installed. Designed to re-circulate the air from your living rooms; made with double galvanized casing. Cast iron construction throughout. When deciding upon the size of your furnace, we recommend adding 25% to the cubical contents of your building. Our engineers are waiting to advise you fully.

No. NA-24 18 inch 12,000 \$85.00

NA-25 20 inch 15,000 \$97.00

NA-26 22 inch 18,000 \$105.00

NA-27 24 inch 28,000 \$125.00

NA-28 26 inch 40,000 \$150.00

PIPELESS FURNACES!

Double Casing \$85.00

Re-Circulating System!

We offer the world's best pipeless furnace proposition. Splendid single register heating system, quickly and easily installed. Designed to re-circulate the air from your living rooms; made with double galvanized casing. Cast iron construction throughout. When deciding upon the size of your furnace, we recommend adding 25% to the cubical contents of your building. Our engineers are waiting to advise you fully.

No. NA-24 18 inch 12,000 \$85.00

NA-25 20 inch 15,000 \$97.00

NA-26 22 inch 18,000 \$105.00

NA-27 24 inch 28,000 \$125.00

NA-28 26 inch 40,000 \$150.00

Send This Coupon!

HARRIS BROS. CO., Chicago

Dept. NA-42

Check the squares below, to show which items and material you are interested in, and we will send you the proper literature free, and postpaid.

☐ Camp Material

☐ Roofing

☐ Wire

☐ Corn Shellers

☐ Tractors

☐ Paint

☐ Wallboard

☐ New Building Material

☐ Book of House Plans

☐ Cream Separators

☐ Plumbing

☐ Heating

☐ General Supplies

☐ "Presto-Up" Garages

☐ Furniture

Name.....

Address.....

If you do not wish to tear this page, drop us a postal card explaining your wants.

SPLENDID HOG TROUGHS

GALVANIZED \$1.95

No. NA-29. Strong non-tip feed troughs for hogs, sheep, and cattle. Heavy steel. 12 in. wide 5 ft. long.....\$1.95

8 ft. long.....2.95

10 ft. long.....3.95

Wire Nails \$2.75

Per 100 Lbs.

No. NA-30. New wire nails. All sizes from 3 to 40d. Handy assortment for general use, indispensable for use about the farm. 100 lb. keg.....\$2.75

HOG FENCE

No. NA-31. Special barbed bottom galvanized hog fencing made of No. 11 top wire and No. 14 intermediate line and stay wires. Stays spaced 6 inches apart. Space between line wires from bottom upwards are: 3, 3 1/2, 4, 4 1/2, 5 1/2 and 6 inches. 100 rods weigh 425 pounds.

26 inches high, rod.....27c

32 inches high, rod.....33c

Poultry Netting

Per \$3.75 Bale

Our big purchase of galvanized 2 in. Diamond mesh poultry netting from the Government, brings best poultry netting offered to you at big price reductions. Made of 19 gauge wire in two heights. Bales contain 150 lineal ft.

No. NA-32. 36 inches high, per bale.....\$3.75

No. NA-33. 72 inches high, per bale.....\$7.45

IRON PIPE BARGAINS

6c Per Foot

Wonderful values in our big stocks. Random lengths complete with couplings, all sizes at big savings. 1 in. pipe, per foot.....6c

All other sizes priced proportionately low.

CHEMICAL

INDOOR TOILET

\$8.75

Brings every comfort of modern home plumbing at low cost. Best made. Steel blue enameled finish with mahogany seat and cover. Exhaust pipe and one gallon of chemicals. Price complete.....\$8.75

HARRIS BROTHERS CO

35th & Iron Streets

CHICAGO