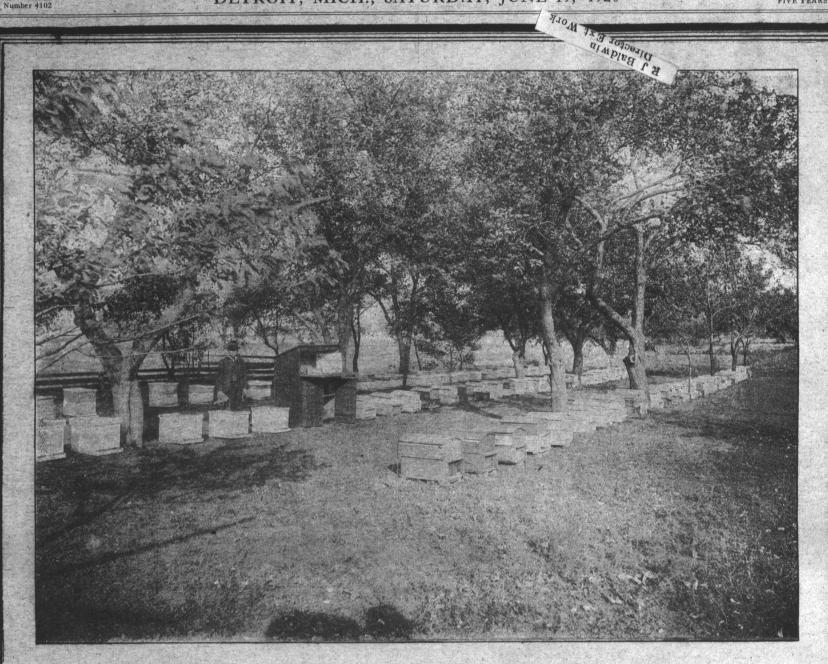


VOL. CLIV. No. 25 Whole Number 4102 DETROIT, MICH., SATURDAY, JUNE 19, 1920

ONE YEAR \$1.00 FIVE YEARS \$3.00



THE FARM BEAUTIFUL

THE beauty of the farm in large part depends on what is in the heart of the man and woman who make it their home. Beauty of thought, beauty of planning and beauty of doing cannot but make the farm home beautiful. For beauty comes from the heart where the issues of life are born. The character of the occupants may be learned from the premises quite as accurately as from association or from the printed page, and if that life be charming or sturdy these qualities will be everywhere evident.

When the thinking is right, there will be well-kept buildings, not so much because of the money invested in them, as on account of the little touches here and there that keep things looking well. A fresh coat of paint, which the farmer can put on himself in these days when we can buy fine paints all ready to spread, a weekly trimming of the yard about the house, a min-

ute or two spent in training a few vines up the side of the porch, these are helps to the farm beautiful.

Then, too, the wife in the house may do many things that will tend in the same direction. The curtains and the shades at the windows tell their story of the thought back of them. A few pretty plants in the yard, with a flower or two in a jar on the porch; walks clean and neat, window glass free from dust, they all speak well for the beauty of heart of the one who is behind the pleasant service.

But, best of all, beauty of heart shines out and makes the home beautiful in the kindly living of those who love the farm best of all places in the world. Love counts for more than paint or any work of the hand; for love shows where the heart is, and love always makes the thing it touches radiant with beauty.

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DETROIT, JUNE 19, 1920 IRRENT COMMENT

B of his business,

for the consuming public these conditions generally average in a manner to permit near normal production in most seasons, but in the making of this average the less fortunate farmers who suffer from the effects of frost, flood or drought, as the case may be, find the weather handicap a more or less insurmountable obstacle to their seasonal prosperity.

Nothing is more discouraging to the man of average temperament than to see the possible results of his labor swept swiftly away, or more slowly, but not less surely, shrunken in volume. But every year the farmers of some sections of the country are subjected to such discouragements. It goes with the business, and so far as it is unavoidable must be endured.

But, except in extreme cases, it will be observed in any community that some farmers suffer less from unfavorable weather conditions than others. In a few cases this will be found to be due to more naturally favorable soil conditions, but in a majority of cases it is because they have complied more nearly with nature's requirements in their processes of production. If a wet spring is the handicap their land is generally better drained. If a summer drought is the obstacle they will have plowed early for spring crops and thus stored up a supply of moisture thus stored up a supply of moisture speculators to attempt to break the ers were harrowed and spring grains against the time of need which is later wool market before the season for the sown in with the wheat. The remainconserved by judicious cultivation. If both these handicaps are met in the same season, as has been the case

ferers from the weather handicap. It on the market for these grades. Date is hard to rejoice with a more fortunate neighbor in the hour of discouragement, as it is often difficult to see woolen goods have agreed among how his example can be followed under our conditions when his formula is plain to us, due to other handicaps sible that they might be able to carry from which he may not suffer to a like out such an alleged agreement by often which he may not suffer to a like out such an alleged agreement by often degree. But careful study of the problems of this end public demand must be sathered and publi

ucts. But we should not lose sight of tion of the supply to that demand. the fact that economic production is When they really need the wool the certain to remain a great, if not the manufacturers will buy it where it is greatest, factor in our prosperity. And most readily available at a competitive frequent, and occasional fields have in and year out, thereby increasing their crop yields in poor crop years, when better prices have in large meas-

ingly small. The trade is very evi-

The

Weather

Handicap

And the farmer is subject to a handicap which is always a factor of uncertainty, a l w a y s difficult to meet and sometimes impossible to overcome. Crop growth and crop yields are very largely dependent upon weather conditions. Fortunately for the consuming public these conditions.

By the trade is very every due to the decreased rural population. The rainfall during May was very light, in consequence of which the ground is very dry and crops will suffer materially unless rain comes soon. Winter Wheat.—Wheat varies in condition from very poor to very good, the state average being 77 per cent, as city as collateral, with the banks calling for the payment of the loans. In this regard the Texas growers are unfor the consuming public these conditions.

economic production means the least price. Michigan wool growers will unbeen abandoned. The condition is now possible waste of labor. This in turn doubtedly suffer less from market manone point below the ten-year average means every possible provision to re-ipulation through the pooling of their and II points below that of one year. The indicated production at this duce the weather handicap to its low- wool than would be the case if it were date is 11,773,000 bushels. est minimum. While it will be impos- sold on the speculative market as heresible to eliminate this handicap, the tofore. They will not be easily "shak- 82 failures of one season may be made to en down" as is apparently being atlikelihood the next. And in a general present time. The price which they

MICHIGAN CROP REPORT.

The Wool

Market
Situation

Mile guotations have in large measure made up for lessened production.

While guotations have measure measure measurement offered by the June crop while guotations have report issued by the Michigan Cooperation.

WHILE the condition of all of the small grains is from two to five per cent below normal for the United States, the lowest condition of any of them in Michigan is only one per cent which is difficult of together with the prospect for a good crop of fruit of all kinds, is the ensure measurement offered by the June crop while guotations have report issued by the Michigan Coopera-Satisfactory analysis. While quotations have been marked down sharply on the more common grades, nominal quotations on the better fleece wools are fairly satisfactory. But these quotations are exceed. Spring analysis. Crop of fruit of all kinds, is the enfruits is very flattering at this date. The prospect for all of the fruits is very flattering at this date. Sections, and fine weather has prevail-direction of Coleman C. Vaughan, Sections, and fine weather has prevail-direction of Coleman C. Vaughan, Sections, and fine weather has prevail-direction of Coleman C. Vaughan, Sections, and fine weather has prevail-direction of Coleman C. Vaughan, Sections, and fine weather has prevail-direction of Coleman C. Vaughan, Sections, and fine weather has prevail-direction of Coleman C. Vaughan, Sections, and fine weather has prevail-direction of Coleman C. Vaughan, Sections, and fine weather has prevail-direction of Coleman C. Vaughan, Sections, and fine weather has prevail-direction of Coleman C. Vaughan, Sections, and fine weather has prevail-direction of Coleman C. Vaughan, Sections, and fine weather has prevail-direction of Coleman C. Vaughan, Sections, and fine weather has prevail-direction of Coleman C. Vaughan, Sections, and fine weather has prevail-directions of Coleman C. Vaughan, Sections, and fine weather has prevail-direction of Coleman C. Vaughan, Sections, and fine weather has prevail-directions of Coleman C. Vaughan, Sections, and fine weather has prevail-directions of Coleman C. Vaughan, Sections, and fine weather has prevail-directions of Coleman C. Vaughan, Sections, and fine weather has prevail-directions of Coleman C. Vaughan, Sections, and fine weather has prevail-directions of Coleman C. Vaughan, Sections, and fine weather has prevail-directions of Coleman C. Vaughan, Sections, and fine weather has prevail-directions of Coleman C. Vaughan, Sections, and fine weather has prevail-directions of Coleman C. Vaughan, Sections, and fine weather has prevail-directions of Coleman C. Vaughan, Sections, and fin satisfactory. But these quotations Crop Egent, on The acreages of all mean little, as movements are exceed spring crops, upon which a report has been made to date, are below normal, due to the decreased rural population.

cold winter and spring. The condition has dropped from 89 to 86 per cent during the past month. Much of the

Hay.—The condition of all hay is 82 per cent, four per cent below that of June 1 last year and of the ten-year yield lessons which will reduce their tempted with Texas growers at the average, and two per cent below that likelihood the next. And in a general present time. The price which they of last month. The backward season likelihood the next. And in a general present time. The price which they and lack of rain are responsible for the way the most successful farmers in will finally receive will depend upon low condition. Many clover seedings any community are those who have merchandising conditions rather than failed because of the dry weather last studiously applied those lessons year speculative manipulation. summer in various parts of the state, and many were ruined by grasshoppers in the northern counties of the lower peninsula. The condition of clover meadows is 84 per cent, or four per cent below the ten-year average. The acreage of alfalfa is two per cent larger than last year, and the condition is 94 per cent. This is the same as one year ago and four per cent better than the ten-year average.

News of the Week

Tuesday, June 8.

THE interstate commerce commis-THE interstate commerce commission makes immediately available \$125,000,000 to enable railroads to purchase new rolling stock.—Both the federal prohibition amendment and the enforcement act passed by congress are held to be constitutional by the United States Supreme Court.—One person is killed and nine injured when an interurban car leaves the track near Mt. Clemens.—Delegates from the various states open the republican navarious states open the republican na-tional convention in Chicago.

Wednesday, June 9.

THE German government tenders its resignation to President Ebert. The German elections indicate that the present government is being supported, although the Reds are winning many seats in the new Reichstag.—Ontario has set Monday, October 25, as the date to vote on the question of preventing importation of liquors from the provinces and from the United other provinces and from the United States.—The republican convention at Chicago is busy preparing the various planks in its platform.—The price of silver falls to eighty-five cents an ounce, the lowest since 1917.

Thursday, June 10.

THE Italian cabinet resigns following announcement that bread restrictions would be annulled.—Four-teen persons are killed in a rear end collision on the New York Central near Schnectady.—The Canadian gov-ernment still has under consideration the renewal of the powers of the Do-minion wheat board.—Allied diplomats are now considering the advisability of calling off the proposed conference with the Germans at Spa.—Hiram Johnson's forces compromise with the other factions on the question of the League of Nations, thus avoiding the probability of a bolt among the delegates at the considering the control of the control gates at the republican national con-

Friday, June 11.

ARGENTINE imposes an embargo on the exportation of wheat and flour.—The interstate commerce commission places bituminous coal for lake ports under the permit system.—The National Industrial Traffic League urges higher freight rates to permit the reestablishment of railroad credit.

The establishment of a modified form of self-government in Jamaica will be asked from Great Britain.— Western sugar refinery announces a reduction of \$1.30 per hundred pounds in the wholesale price of sugar.—Four ballots are taken in the republican national convention, with no election.

How to Kill Grasshoppers

R EPORTS received from a few sections in northwestern Michigan, state that the grasshopper is doing damage in a half dozen or more counties where the pest has been working the past few years. Where farmers are organized, and particularly in counties employing agricultural agents, a strong fight will be made to save crops from this pest. Poison is being purchased in carload lots in which work the Michigan State Farm Bureau is assisting in secur-

One method of preparing the poison is to mix by sifting, a pound of poison (either Paris green, white arsenic or crude arsenious oxide), into a bushel of screened sawdust. In a gallon of water dissolve three-fourths of a pound of salt and add one-half of a cup of molasses. Slowly pour this into the poisoned sawdust while the mixture is being stirred, after which add enough water to make a good stiff mash.

This poisoned bait can safely be taken into the hands and spread broadcast. It should not be left in piles around the field but should be well scattered to prevent trouble from its being eaten by live stock. A bushel of this poison ought to cover about three acres of ground. If one salts the cattle and other stock that may be running in the field, before the poison is applied, the stock will then be less attracted to the mixture.

favorably situation, as loanable capital south-central counties, where the Hes-is scarce and interest rates are high. sian fly has done much damage and Under these conditions there is every where there was considerable winter-Under these conditions there is every incentive for wool manufacturers and wool market before the season for the heavy movement of the better wools.

Under these conditions Michigan year, the farmer's skill and resource an arrangement for the pooling of their good in the northern districts except fulness is put to a still more severe clip through the medium of the State test, especially in view of the shortage Farm Bureau, and borrowing money peninsula. of farm labor with which to rush oper- for current needs on their warehouse keted at mills and elevators during ations when conditions are favorable. receipts if necessary. Without question May is 533,000 bushels, a total of 11, These facts are often an added this pooling of the clip in important 479,000 bushels since August 1, 1919. The estimated amount still remaining on farms is 2,012,000 bushels.

killing. Some fields were plowed up and given over to other crops, and othing fields are more or less spotted. the central and east-central counties there are many excellent fields and these have made considerable improve-

The estimated amount of wheat mar-

Systems of Farming Light Soils

You Will be Interested in Knowing How These Successful Farmers Handled Their Sandy Lands-By H. W. Ullsperger

be profitable.

times called the desert of Wisconsin), there are city-bred farmers who finally succeeded in saving a few hun dred dollars to make the first payment on a tract of sandy land, moved from the city to the farm, and after ten to fifteen years own their farms, have good buildings, own live stock, and have made a good living. These men say they and their families are much better, healthier, and live better in the country than in the city. They have had to endure some hardships at the start, work somewhat longer hours, but the returns have been better than in the city.

Sandy or light soils because of their comparatively lower selling value, are within reach and are frequently purchased by the man of limited means. This man cannot improve his buildings or farm rapidly, which partly accounts for the poorer appearance of buildings on these light soils. However, I have been in numerous localities where first-class buildings are found on nearly every farm. These men say that they started with practically no money, many of them not acquainted circumstances financially.

"How did they do it?" is a question frequently asked.

to buy live stock. Clover for hay grew said: well on these virgin soils and was grown extensively. As the live stock industry developed creameries and cheese factories were established in these light soil regions, which meant that farmers would feed their grain and hay and keep a larger proportion of the fertility on their farm. This gave them larger yields per acre and established a permanent system of farming. Recently, however, some of these farmers have failed in securing

high-grade substitute for marsh hay; and about commercial fertilizers for securing a larger corn crop, which was placed in two the other for winter feeding. In this way the supply of milk was maintained and a steady income was provided during the entire year.

Hog raising was also introduced by these farmers. Skim-milk, buttermilk and whey were utilized and the hogs raised largely on pasture where available clover was used for early spring pasture; in other places fall-sown rye proved to be the only pastur-



Legumes Are Important Crops in the Rotation for Light Soils.

with farming, and are today in good of mill feeds and make hog raising test, with a yield of ninety-six bushels profitable on light soils.

of shelled corn per acre; the man who cattle. Mr. C. S. Ristow, Black River Falls, secured first produced one hundred "Wisconsin's Light Soils Farmers' In- and twenty bushels per acre. Mr. Risfarmer grew mostly rye, oats, buck- ward proving the possibilities of these fertilizer; he grows soy beans exten-

	Hay, Per	Corn, Per	Potatoes
Rotation.	Acre.	Acre.	Acre.
Three Years: - Grain, clover, corn or potatoes		59 bu	178 bu
Four Years: -Grain, clover and timothy pas-			
ture, corn or potatoes		42 bu	132 bu
Five Years:—Grain, alfalfa, three years corn		48 bu	153 bu
or potatoes			
Two Years:—Soybeans, corn		44 bu	
Two Years:—Cowpeas, corn		32 bu	1
Two Years:—Vetch, corn		38 bu	
The above figures are average yields covering	g a nine-year	period.	

time had sufficient money to buy what and to buy live stock. He grew some duction of better crops, they termed a better farm or heavier cash crops and started to deliver milk In Oneida county many light soil The accompanying table clearly in-

tuted marsh hay in its place, which two years." It was a worn-out soil, tow has done others can do, and his page, showing the relative value of meant less milk and smaller returns, infested with quack grass. He had to talks throughout the state are inspir-different rotations was secured on Some became discouraged and by this mortgage the farm to help pay for it ing other light soil farmers in the pro- light sandy soil in Marinette county

soils. The more progressive farmer to customers in the city. His first de-farmers are following a different sys-dicates that the three-year rotation learned about the use of limestone in livery was one quart of milk per day; tem. These men do not want to fol- has given the largest yields of corn growing clover; about soy beans as a his business gradually increased until low dairy farming but grow only cash and potatoes per acre. The five-year

OTH Wisconsin and Michigan have age available. To have a succession of he supplied nearly all the people of his crops. They use a three-year rotation thousands of acres of sandy soils pasture crops, a combination of soy adjoining town. Today, after ten years of grain (rye or oats) seeded to clowhich are being farmed success- beans and rape or peas and oats were have passed, he is still on his farm, ver, clover during the following year, fully, still it is claimed by men preju- planted as early as spring weather per- He has purebred Hampshire hogs, all of which is plowed under to furdiced against this kind of soil that mitted, these crops to be used in mid-purebred Guernsey cattle, some valued nish humus for the succeeding potato it cannot be farmed profitably. Dif- summer for pasture purposes. Finally as high as \$1,000 per head; has an up crop. A 2-8-4 or a 3-8-6 fertilizer is ferent systems of farming are being the hogs were finished off and fatten- to-date barn and has sent his children applied, varying in amount from fiveused by these progressive farmers, ed for market on a combination of soy through high school and through the hundred to one thousand pounds per Some of these methods have proven to beans and corn, either pastured or cut university. During 1919 on his sup- acre on the potato crop. This rotaand fed directly to the hogs. These posedly wornout soil he got eighth tion supplies the necessary humus and In Adams county, Wisconsin, (some-combinations eliminate the purchase place in the state two-acre corn con-plant food and has proven profitable.

A few of these farmers are changing to a four-year- rotation by introducing soy beans for seed as the fourth crop, thereby having three cash crops during four years: two of the crops grown being legumes which add nitrogen to the soil. This four-year rotation also more effectively prevents the development of potato diseases, such as scab and blight.

Another method followed by farmers who rely on potatoes for the main crop, but who do not care to milk cows, is to raise beef cattle to consume the roughage, such as corn, clover and soy beans. These men do not pasture their stock but have two silos and feed silage and some soiling crops during the entire year. They are following the same rotation, but plant corn in place of the usual large acreage of potatoes. The corn crop receives either a 2-12-2 or a 2-10-4 fertilizer and the manure is applied on the grain crop to aid in growing better grain and securing a good stand of clover. With the present scarcity of labor, a large number of live stock farmers have been forced to change from dairy farming to the production of beef

Rotation of Crops.

Every farmer located on light soils The Adams and Waupaca county stitute" lecturer, has done much to tow believes in and uses limestone and should plan and follow a definite rotation of crops. A good rotation of wheat and potatoes as cash crops, soils. When he purchased the farm on sively, securing in 1919 a return of crops should maintain and to a certain These he sold and used the proceeds which he is now located, neighbors \$1,134 from nine acres of soy beans extent increase the supply of nitrogen "Ristow will either starve to grown for seed, and still has the straw in the soil, prevent the development of insects and diseases, supply humus and increase the water-holding capacity of the soil. A two-year-rotation of rye and soy beans has been discussed. On some farms a two-year rotation of corn and soy beans has been used but has not proven very successful.

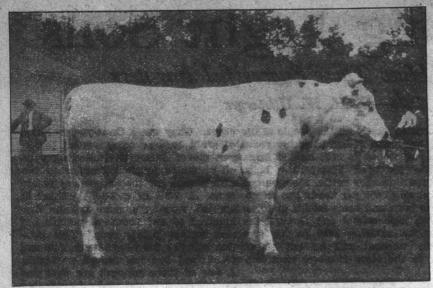
The rotation which has given the best returns in crop yields is a threeyear rotation of grain seeded to clover, clover during the following year, then corn or potatoes during the third good crops of clover hay and substi- death or move away from that farm in for feeding purposes. What Mr. Ris- year. The data in the table on this from 1909 to 1918.

rotation with land three years in alfalfa is a close second. The growing of clover and timothy on light soils is a practice which is not conducive to the production of a good crop. Neither does the two-year rotation of an annual legume alternating with a cultivated crop produce the best yield of corn or potatoes. A two-year rotation of rye and soy beans yields better returns.

The more humus and nitrogen a rotation will add to the soil, and more, it will increase the waterholding capacity and in (Continued on page 947).



An Ample Supply of Vegetable Matter Must be Turned Down to Secure Maximum Results.



Champion Mobel Hengerveld, Owned by Fred Risch and Tracy Crandall.

signed affair; it has been work- pay next spring."

of any of the factors involved.

When County Agent Fred S. Dunks started work he proceeded to be a a little too far in this Roman. After he got the feel of things business of disputing he began to devise means to expand, figures, getting personimprove and possibly take the lead al about it. But I among his fellow Romans. By the merely want to show time the new Farm Bureau movement that the farmers of came along the farmers were willing Livingston county to join hands with the work, for he have worked out a syshad grown up with them, so to speak. tem of farming that is He was one of them. That is a lesson not so bad after all, every young county agent should learn, and that their crop

agricultural college do not understand about the most profitthese things, but in many years' trav- able combination for eling in old established farming sections the "Circuit Rider" has found county. the prevailing system of farming-themost successful system—is simply a Livingston county being the most profitable to adopt. No ods of soil preparation are practiced. matter what any over-enthusiastic readjustor may say to the contrary.

with Frank E. Meyer. Frank kept ten marl deposits and devising Michigan was losing from \$20 to \$60 a up some of his most valuable projects. year for her owner. On the way home Another of Mr. Dunk's pet hobbies year. That isn't good business."

years. The prevailing rotation-corn, that otherwise would have been wast- phosphate. small grains, clovers and grasses-oc-ed, and they didn't explain that the

Perhaps I am going Probably all young men just out of growing system is that section of the

In the first place,

Now let me explain this point with and clover has been the high cost of a short account of what I ran up lime and the distance of some of the against in Livingston county three farms from suitable railroad points. years ago. Along in the summer I This is one of the reasons why Mr. spent a few weeks near Crooked Lake Dunks has been so active in locating or twelve cows and sold milk. We getting the material out at a low cost. happened to go over to East Lansing He has succeeded in locating many to a dairymen's meeting, and heard rich marl beds, but the scarcity of la-Clark Reed, John Ketcham and D. D. bor and the difficulty of handling the Aitken tell how every dairy cow in marl at a reasonably low cost has held

I said to Meyer: "Why don't you sell is the growing of Grimm alfalfa, and a your cows and sell the feed you are ride through the county with him is wasting on them? Each cow is put-convincing evidence that no farmer ting you in bad from \$20 to \$60 per can afford to grow common alfalfa when he can secure Grimm seed. He scratched his head and grinned. Some of the fields where the Grimm "Wish I had about ten or a dozen and common alfalfa are growing side more of them cows," he said, "because, by side are striking examples of what

Our Farm Bureaus

Swinging through Livingston County Circuit Rider Saw Why the County

ing as in Livingston county and parts corn, clover and alfalfa." of other counties where similar types of soil predominate.

tention is the use of acid phosphate. In around to Fenton and back to Howell several field tests the use of two hun- we counted dozens of new silos, from HE agricultural program of Liv- the more cows I lose that much a year dred pounds of acid phosphate per acre many barns we saw trolleys of feed ingston county is no recently de- on the more income tax I'll have to has increased the yield of wheat and and manure carriers. At more than a rye from nine to twelve bushels per dozen farms we heard the popping of ed out by evolution and the practical Now, Meyer was a pretty good farm- acre. Most of these tests have been gas engines that were milking the guidance of the county's best farmers. er. Things were kept up in good shape made on dairy farms where the fertil- cows. There are telephones every-It is hard to analyze the farming situ- and his home was tidy and snug. So ity is pretty well maintained by the where and in many fields tractors ation without continually referring to I didn't argue with him. I began to use of farm manures. All of which were plowing and fitting the ground the Holstein-Friesian cow, for no other go over Reed, Ketcham and Aitken's goes to prove that thousands of farm- for corn and beans. These changes one thing is so strongly identified with figures. By all the rules of mathe ers who depend upon farm manure and are coming so fast that they almost whatever progress the county has matics they were right, but somehow legume crops to maintain soil fertility startle us. And then the way the or other they did not allow for the could find handsome profits in balanc- farmers are organizing for business Crop rotations are nothing new; the fact that the cows were cared for during up their supply of plant food by makes it hard for some of them, even county has been farming by them for ing a large part of the year on time the purchase and judicious use of acid as middle-aged men, to realize that

In explaining his efforts along these casionally is stretched to a five or six. cows consumed a lot of cheap coarse lines Mr. Dunks said: "One of our of time to consider everything, but toyear program by prolonging the time feeds. The real story was not in the greatest problems here in Livingston day things are moving so fast that the



Mr. Dunks and His Two Fine Boys.

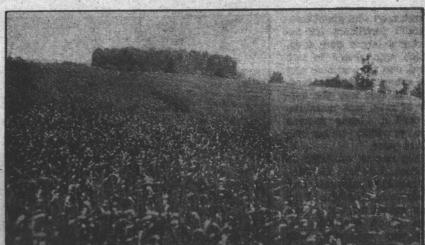
Years ago when the farming game contain sufficient acreage to follow We are buying too much and growing teen hundred farmers into the fold. was new, many Livingston county general crop growing, dairying and too little, both of feeds and fertility. Since then Mr. Dunks has been busy farmers raised a lot of corn and small sheep raising without searching about My idea is to get our land in shape perfecting his organization projects. grain and sold it. They don't prac- for more land. The farms in the count to grow alfalfa and clover and feed The county is thoroughly organized for tice that system much today. Why? ty average well over one hundred more stock. I am sure that our farm- business, and every farm in the countries that system much today. Why? Simply because the farms yield better acres in size and a comparatively small ers can turn the trick of producing ty is within easy distance of some coreturns when cattle and other kinds proportion of the are operated by more good feed for their cows and in- operative association. And all of these tenants. The dairy cow and the silo creasing the fertility of their farms cooperative projects are organized on not come in one year—or in five years, are stimulating the growing of corn under a simple system of crop rotation the non-profit basis so that there will A process of slow evolution brought and legumes and gradually discourage calling for clover or alfalfa everythird be no troubles to smooth out when ing the sale of grain and hay. Living- year. The liberal use of lime and acid they affiliate with their county and of farming in any of our old and thick- ston county can grow corn, alfalfa and phosphate, and the careful handling of State Farm Bureaus. Livingston counly settled counties come pretty near clover to perfection when proper meth- farm manures will work wonders with ty is the first county to be organized most of our soils. All of my demon- along the non-profit lines. One serious obstacle militating stration plots indicate that we are on At Howell is the Livingston Coop-

farmers are annually losing through along the prescribed lines. As the sysexperimenting with inferior alfalfa tem becomes more thoroughly estabseed, or endeavoring to grow varieties lished more grain feeds can be grown that are not adapted to their soil and on the farms, but for the first few climatic conditions. And the same con- years about all we can accomplish is ditions obtain in other counties, al- to improve roughage feeds and get the though the results are not so convinc- land in shape to grow larger crops of

R IDING from Howell to Brighton, and back around the lakes; then A NOTHER matter which has claim- over to Fowlerville and Pinckney and ed considerable of Mr. Dunk's at- around by Oak Grove, Cohoctah and

A few years ago there was plenty figures, but underneath Meyer's grin. county is that of producing more and fellows who can't get in step with the spirit of the times are sure to be lost in the race. And some of these changes are changing the farmer's viewpoint of his fellow farmers. The independence of a few farmers in every community is going to separate them from other farmers as far as they are now separated from city people. These present differences are but ripples on the surface of a deep stream that is changing the whole channel of agricultural progress. Their selfish independence is going to separate them from other farmers as far as they are now separated from other classes. In the immortal words of the editor of the "Independent Rip-saw": "He that is not for us is against us."

The membership drive of the County natural outcome of local conditions. farms are pretty well balanced and better roughage feeds for our cattle. Farm Bureau brought more than four-



Red Rock Wheat Yields Forty Bushels on Farm

and Their Work

with Agricultural Agent Dunks, our is Known from Coast to Coast.

year's business will be nearly double community. that of 1919.

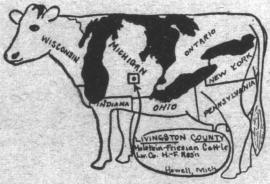
are: Bert Appleton, president; Adam Mr. Norton was born in Livingston ence as a breeder of cattle has coneral farming and stock raising on his Henry Conrad, Charles Newman, Frank interest in community problems. No vation of the farmer in these days southwest of Fowlerville. He was for-Rickett, Conrad Weber, Henry Ross, man has done more to encourage bet- when every other interest is organizdirectors.

president; E. H. Gallup, manager. Pinckney Producers' Association, Arthur Shehan, manager, Stephen Van Horn, president; Lyman Hendee, secretary. At Cohoctah the Agricultural Association, with George Killin, manager; Hamburg, the Producers' Association, with Henry Queal, manager, and Stockbridge, with Henry Sharp, manager. With these new organizations the county will be well organized for business, and every farmer will be able to get service at a convenient shipping point.

Livingston county made a wise selection of the members of the County Farm Bureau Executive Board. J. G. (Jimmy) Hayes, the president, is one cows and heifers are all backed by been breeding Holstein cattle more and Mr. Dunk's knowledge of soils

Witty, president; Ernest Lawson, man- another popular leader in things that ager; H. W. Norton, D. H. Hoover, J. go to make his community a better G. Hayes, T. B. Gilkes, directors. It place in which to live and conduct a does a general stock shipping and farming business. On his one hundred farm supply business. It has recently and ninety-acre farm near Howell he taken over an elevator and general has developed one of the best Holstein milling business and will handle all herds in the county and found time to aid his fellow farmers in their cooper-At Fowlerville the Farmers' Cooper- ative undertakings. At present he has ative Association did a business of about twenty well selected females in more than \$165,000 last year and on his herd, and for a sire is using Util-April 1 it acquired an elevator. The ity Hengerveld Segis Lad, a bull noted officers are: Clifford Copeland, presi- for his individuality and whose dam at dent; Clarence Benjamin, manager; three years of age made 30.28 pounds James Wilkinson, E. B. Milet, C. D. of butter in seven days. Mr. Witty is Parsons, Roy Brown, C. W. Gerden, a man of sound judgment and he has of Ypsiland Sir Korndyke De Kol, and stock farm of one hundred and thirtydirectors. It is expected that this the confidence of the farmers of his from that good cow College Belle But- eight acres, where he practices general

conducts a general stock shipping and hundred acres of land and maintains up his community and put farming on it a success. farm supply business. The officers a herd of about fifty Holstein cattle. a better business basis. His experi-Weber, manager; Charles E. Herbst, county and has always taken an active vinced him that cooperation is the salone hundred acre farm eight miles ter farming and the development of the ing for business. County Farm Bureau than Horace M. J. Roche, director, breeds Hol-



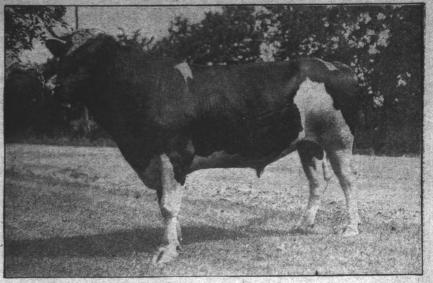
Horace Norton's Idea of the Holstein Field.

of the live, progressive young men of three or more generations of twenty to than twelve years and has made rec. makes him especially well qualified to the county. Always ready to join thirty-pound records. For more than ords up to twenty-five thousand pounds serve the farmers of his county. hands with his fellow farmers in any twenty years he has been actively of milk a year on his farm. Mr. Roche undertaking which will aid in bettering identified with the Holstein interests has always lived in Livingston county the conditions of his community, he of the county, and in all of that time and his friends freely predict that he has won a host of friends. For eight he has never allowed his breed enthu- will make a twenty-five thousand years he has been breeding Holstein siasm to overshadow his interests in pound a year record on the newly orcattle on his one hundred and twenty- the welfare of the general farmer or ganized executive board. He is in fine acre farm east of Howell. For four the man who milked a few grade cows, condition for the official test.

the Livingston County Holstein Asso- erates a fine farm of one hundred and erates a hundred and twelve-acre farm obviously impossible to tell in detail tion, and has been active in all matters seventy acres five and a half miles six miles from Fenton. Mr. Lyons has all one sees in a day in Livingston that would promote the breed in his from Howell. He has always been an a herd of about thirty choice Holstein county, when every stop furnishes maown and other communities. No man active booster for everything of a co- cattle and uses sires that average well terial enough to merit a separate story. did more to get the first cooperative operative nature, and a prominent fig- above the thirty-pound standard. He The best this narrator can do is to undertaking in the county under way ure at all Holstein meetings in the is one of the best farmers in the coun- race sketchily along, trying to keep in than "Jimmy" Hayes, and he is still county and state. At present he has a ty and has always been a booster for sight of his quick-thinking and livelyserving as its secretary moving mentors, whose natural habitat



Grimm Alfalfa Limed with Marl, on Mr. Bamber's Farm.



Son of Ragapple Korndyke 8th, Used by W. J. Witty and D. H. Hoover.

OTHER organizations that are doing Horton. H. W. Horton & Son have stein cattle of popular blood lines and Mr. Stowe has been a booster for the business and that will soon be in always aimed to produce healthy cat- operates his two hundred and fortyline for business are the Gregory Ag. tle of good type and production. Their acre farm near Pinckney. His herd on to leave no stone unturned to make

> al Burke, whose two and the state of Michigan. nearest dams average over twenty-one thousand

tive board

Clifford Copeland, director, owns and speaking. operates a fine farm of one hundred Our first stop was with Frank E. er's interests.

his community. He owns a dairy and

ter Lass, who made eleven hundred farming and milks a small dairy herd. pounds of butter from twenty-five thou- Mr. Olsen's farm is seven and a half Then we come to H. W. Norton, sec- sand pounds of milk in one year. Mr. miles northeast of Fowlerville. He At Brighton the Producers' Associa- retary and treasurer, the noblest Rom- Munsell can be depended upon to sup- worked hard in organizing the Farm tion has purchased an elevator and an of them all. Mr. Norton has five port any movement calculated to build Bureau and will work harder to make

Asel Stowe, director, practices genors and is thoroughly qualified to get up and fight for the farmer's interests. ricultural Association, J. J. Donohue, herd is on the accredited list and the numbers about twenty head and his it of service to the farmers of his compresent sire, King Mutu-munity, as well as Livingston county

> Fred S. Dunks, county agent, gradupounds of milk a year ated from M. A. C. in 1905, practiced and one thousand one commercial chemistry for seven years, hundred and forty-three served as state seed inspector, operatpounds of butter, is one ed his farm in Branch county and of the real good bulls of came to Livingston county two years the county. His sire's ago last April. Dunks is thoroughly dam was a world record qualified for the work and is regarded two-year-old, and his as one of the leading soil experts of dam's mother was the the state. His work along soil and world's record ten-year crop improvement lines has been of old cow, and made forty- great benefit to the farmers of Livingone-pounds of butter in ston county. No county in Michigan seven days. Mr. Roche has has more types of soil to deal with

THE Holstein-Friesian cow has been a prominent factor in the farming interests of Livingston county. In the number of registered Holsteins the county ranks second in the United States. A few hours' ride will take years he has served as secretary of Silas Munsell, director, owns and op- C. P. Lyons, director, owns and op- you to more than fifty herds. It is Wesley J. Witty, vice-president, is here sire is College Butter Boy, a son Rock wheat averaged above forty this Livingston county is, and whose bushels per acre. Always alive to his eat, drink and merriment is moderncommunity's needs and willing to join day Holstein-Friesian lore. Much could hands with any effort to put farming be said of the pioneer breeders of on a business basis Mr. Lyons is sure the county. But we must not take time to prove a strong man on the execu- to think of yesterday. There is too say of today, Holsteinically

and forty-three acres a few miles Pless, and at once we were bang up northeast of Fowlerville. He practices against thirty-eight choice females. general farming and stock raising. Mr. headed by the sire, King Pontiac Segis Copeland is a native son and has al- Jane, a son of King of the Pontiacs ways been interested in the welfare of and from a 31.76-pound three-year-old, his township and county. He is pres- and the Junior herd sire, Grant Crown ident of the Fowlerville Cooperative Pontiac Korndyke, is from Flossy Association and a worker for the farm- Grant, a cow with a 32.95-pound sevenday record. All of this herd descend-C. C. Olsen, director, is a young farm- ed from a fourteen-year-old imported er with progressive ideas and is not cow. Mr. Pless has never sold any of afraid to stand up for the farmers of his best females and with these herd (Continued on page 931).

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And That's The

DE LAVAL

For Forty Years The World's Standard

There may be a half-dozen plows, wagons, tractors, autos or other farm equipment to choose between, but no would-be imitator or utilizer of expired De Laval patents has yet produced a cream separator comparable with the De Laval.

First in the beginning, De Laval machines have led



in every step of cream separator improvement and development. Every year has presented some new feature or betterment, and the 1920 machines are still better than they have ever been before.

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Box 525, M. H. HUNT & SON, BUY FENCE POSTS direct from for-est. Prices deliv-ered your station. M. M. care of Michigan Farmer

Seed Potatoes For Sale Potato

LEARN AUCTIONEERING at the World's Original and Greatest School and be independent with no capital invested. Every bran the business taught, Write to JONES NAT'L SCHOOL OF

LANSING, MICH.

Congress vs. the Farmer

Our Washington Correspondent gives a Resume of what Congress Did and Did Not Do this Last Session to Help the Farmer.

Capper-Volstead bill legalizing farm- tional exchange." ers' cooperative marketing associa- The pure fabrics bill did not get out tions, the Kenyon-Anderson packer of committee, owing to a delay in

of these bills. They have faithfully measure. and intelligently represented their organizations at the hearings and conferences with congressional committees, and it is evident that they have made a good impression upon congress, which will be a valuable aid in promoting farm legislation during the coming session.

N reviewing the work of this congress, the Washington representatives of the National Grange say that 'a comparison with the twenty-nine tive program, adopted at the 1919 anapprove a policy which is in opposi- farm crops and live stock. tion to or contrary to the spirit of any declaration of the National Grange. and Johnson bill for excluding and de- \$50,000. porting undesirable aliens, the Edge The rural credit bill is said to inforeign corporation financing bill, the clude in its provisions the best feaincrease bill."

needed agricultural legislation. Liv- banking on credit system. tion and providing a proper distribu- gration question.

THEN congress adjourned on tion of the same. Both can in a large June 5, it left behind in com- measure, be accomplished when measmittee or on the calendar of ures now pending are enacted, providthe house or senate, several bills of ing for farm credits and cooperative considerable importance, at least from marketing, insuring a sufficient fertilthe farmer's standpoint. Among these izer supply, and keeping open the measures that failed to pass were the world markets by stabilizing interna-

control bills, the cold storage bill, the printing a report of the hearings. Con-Vestal basket standardization bill, the gressman Burton L. French, of Idaho, pure fabrics bills, and the Kahn-Wads- who introduced this bill, tells me that worth Muscle Shoals nitrate plant op-many representatives in congress are eration bill. But much progress has hearing from their constituents urging been made with all these bills, and the enactment of the measure, and they are in an advantageous position that if it could have been brought befor early action in the next session. fore the house for a vote the probabil-Farmers are expressing much re- ities are that it would have passed. gret that these very important meas- He is preparing to make a determined ures did not get through during the fight for his bill next fall, and is asksession just ended, especially the pack- ing all who are interested in pure er control and collective bargaining fabrics to write their representatives legislation. T. C. Atkeson and A. M. in congress, asking their support for Loomis, of the National Grange, Gray the Truth-in-Fabrics bill when con-Silver, of the American Federation of gress is again in session, After Farm Bureaus, Charles M. Lyman, of having made an exhaustive study of the National Board of Farm Organiza- the various misbranding bills, Contions, R. F. Bower, of the National gressman French is convinced that Farmers' Union, and other Washing- both wool growers and consumers of ton representatives of farmer organi- woven fabrics should center their dezations have made an aggressive and mands on the passage of his bill as far from fruitless fight for the success the most practicable and effective

THE Interstate Commerce Commission has made an appropriation of \$125,000,000 of government funds, immediately available, for the use of the railroads in the purchase of new rolling stock. The money will be advanced out of the \$300,000,000 revolving fund provided in the transportation act. Of this amount \$75,000,000 will be used toward the purchase of twenty thousand refrigerator cars for points in the National Grange legisla-these have been provided, funds will the movement of the fruit crops. When nual session of the organization, disbe available for other freight cars. It closes the fact that not in a single parment in freight traffic conditions in ticular did congress enact a law, or time to facilitate the movement of

In four great constructive measures A JOINT commission of the house congress acted in accord with the A and senate will make an investiga-Grange statement as to wise and ex-tion of the personal rural credits syspedient public policy. The first of tem of Europe during the summer. In these was the railroad legislation, rediscussing this matter, Representative turning the roads to private ownership Louis T. McFadden, chairman of the and private operation under govern-house committee on banking and curment control; the second was contin- rency, says: "The rural credit bill beued support of the Land Bank system fore the banking and currency commitin spite of the attacks on this system tee provides for the establishment of in the courts and before public opin- a cooperative system of farm credits ion; the third was the enactment of in this country, based on personal sea merchant marine law ending govern- curity. It provides for one central ment ownership and operation of mer- bank, forty-eight branches, one for chant ships, and the fourth the enact- each state, and innumerable local asment of a national budget system. sociations. The central bank will have Other bills passed include the army a capital of \$25,000,000, with a sinkreorganization bill with no compulsory ing fund created to reimburse the govmilitary training, the public lands leas- ernment for the capital advanced. ing bill, the Sterling anti-sedition bill Each branch will have a capital of

Platt Federal Reserve Bank Act tures of the European system. It folamendments, the civil service and full-lows the French plan in limiting the er pension bills, and the postal wage activities of the proposed banks to the use of bills of exchange, or to banking with bills, as distinguished from the I N an interview, Gray Silver, of the system of banking with deposits, thus American Federation of Farm Bú-enlarging the outlet for productive agreaus, says: "I regret that congress ricultural paper, and reducing the exadjourned without enacting much penses of management of our entire

ing costs will mount higher and higher A sub-committee of the house immiand unrest will become greater and gration committee has been appointed greater until proper legislation gives to go to the Pacific Coast this sumthe facilities for increasing produc- mer to investigate the Japanese immi-



Our Farm Bureaus

(Continued from page 929). sires expects to develop some excel- has recently purchased a half interest lent cows

hundred and thirty-two acres and his wonderful crop of calves. herd averages about twenty head. His Pauline Sarcastic, and out of the for- Jersey swine. mer world's record four-year-old cow,

making of early Holstein history in dence in his herd. Livingston county. While operating ate herds they are working as brothof Rag Apple Korndyke 8th, and out days. of Niva Kalmuck, 45.18 pounds of butteen to 32.32 pounds of butter in seven

Our next stop was at the farm of dale Flint Ferndale AAggie for \$3,000 at public sale. Their herd contains about twenty-five females and they are breeding a number of them to Glenn

two hundred and ten acres, and keeps

thirty-five Holsteins. Mr. Van Scycle in Mr. Roche's sire. Here we found In a short time we were at the farm seventeen heifers, all from credible of Fred Risch, who recently made a semi-official record cows, that would record of 31.33 pounds of butter in grace any herd in the country. These seven days with the first Holstein heif- heifers when mated with a sire of such er dropped on his farm. He has two wonderful breeding should produce a

Another breeder in that section is present herd sire, Champion Mobel Lynn Hendee, who keeps twenty-two Hengerveld, is a young bull of choice Holsteins and has for a sire Prince breeding and great individual merit, Posch Korndyke Wayne, a twentyhaving won several first prizes in eight-pound bull. Mr Hendee also has strong competition, his sire is by a son a flock of seventy registered Black Top of the thirty-six-pound cow, AAggie Sheep, and a herd of excellent Duroc

At Fowlerville we visited Robin Mabel Segis Korndyke. His dam has Carr, who has a farm of one hundred made a good record every year since and sixty acres and a herd of thirty she first freshened; her seven-day rec- Holsteins. Here we found type and ord is 31.32 pounds of butter, 587.7 quality standing out on every individpounds of milk. Tracy Crandall, of ual. Mr. Carr's present herd sire is Howell, owns a half interest in this Maple Plane Prince. Among his females are several young cows of his Our next stops were at the farms of own breeding that have made records Tracy and Merle Crandall, sons of about twenty-five pounds of butter in that veteran breeder, Frank Crandall, seven days. Mr. Carr is a stickler for who has such a prominent part in the type and no sloping rumps are in evi-

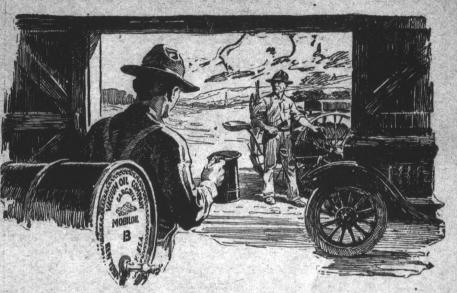
We next visited the Maple Lane different farms and maintaining separ Farm of Guy Wakefield, where some of the best records in Livingston couners should work in the business. Each ty have been made. Over at the farm maintains a herd of about twenty fe- of Malachy Roche, two miles east of males and for sires they are using Fowlerville, records up to 30.06 pounds King Korndyke Kalmuck, a grandson of butter have been made in seven

Six miles north of Fowlerville we ter in seven days. They have devel-visited the hundred and fifty-acre farm oped females with records of from six of Arwin Killinger, who has a herd representing four generations of Holstein breeding. He has about thirty head at present and his herd sire is Charles Heeg & Son, four miles from Itsamere Jericho Shadeland. Sunny Howell. They recently sold Rubert- Plains Stock Farm has made several credible records and the young stuff coming on will be tested before being

Charles and August Ruttman have Alex King De Kol, a forty-three-pound one of the best farms and herds of high-class Holsteins in the county. They have made records up to thirty OVER at Plainfield we visited Taft pounds in seven days. Their herd Van Scycle, who has a fine farm of numbers about twenty-five head and (Continued on page 945).



Some Fine Shorthorns on the Farm of McQuillan & Sons.



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VOU can't do your best work in uncomfortable clothes. Your horses can't in ill-fitting harness. Their harness must leave them free to put their whole strength to their work.

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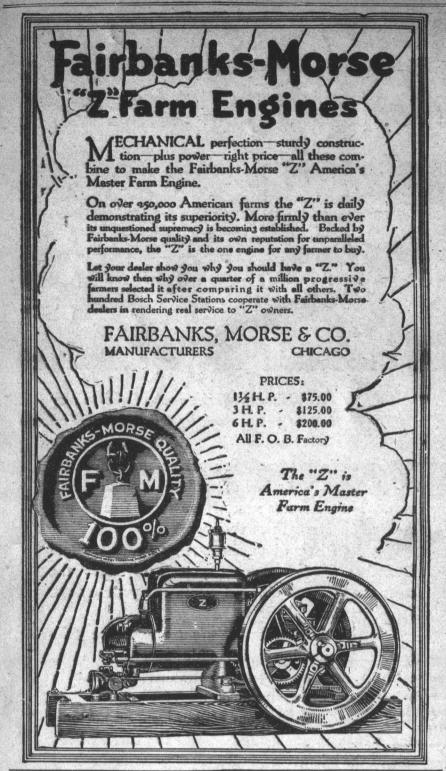


In buying Gargoyle Mobiloils from your dealer, it is safer to purchase in original packages. Look for the red Gargoyle on the container.

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Specialists in the manufacture of high-grade lubricants for every class of machinery. Obtainable everywhere in the world.

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Curb, Splint, Sweeny, Capped Hock, Strained Tendons, Founder, Wind Puffs, and all lameness from Spayin, Engelone and other bony tumors. Cures all skin diseases or Parasites, Thrush, Diphtheria. Removes all Bunches from Horses or Cattle.

As a HUMAN REMEDY for Bhou-natism, Sprains, Sore Throat, etc., it

matism, Sprains, Sort is invaluable. Every bottle of Caustic Balsam sold in Warranted to give satisfaction. Price \$1.75 per bottle. Sold by druggists, or sent by ex-Send for descriptive circulars, testimo-

THE LAWRENCE-WILLIAMS COMPANY, Gloveland, Ohio.





Prevent Smuts

It is more necessary today to employ scientific methods on the farm than ever before. Cleanse all seed grain with Formaldehyde solution before planting. Positively destroys smuts of wheat, oats, barley, rye, etc.

<u>FORMALDEHYDE</u> The Farmer's Friend

Spread the seed grain in a thin layer and sprinkle with diluted Formalde-hyde. Shovel over thoroughly and cover the pile with bags for about ten hours. Dry out by spreading uncovered in a dry place. Disinfect the drill with Formaldehyde before planting.

One pint of Perth Amboy Formaldehyde treats 40 bushels of seed. New hand-book sent free on request.

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Our Service Department

TAXING FOR ROAD CONSTRUC-

the road? Per cent and time? How far each side of road can taxes be levied, and per cent? Where a road is all in one county, can a tax be levied in adjoining county?

Eaton Co.

E. H.

The act referred to makes provision for the building of roads in practically the same manner as drains are constructed under the general drain law. If the road is situated entirely within one county, a petition signed by the owners of not less than sixty per cent of the lineal frontage on the road is presented to the board of county road commissioners. If the district particularly benefited by the improvement, or the road itself, lies in two or more counties, or the road to be improved is a part of the trunk line system, the petition is presented to the state highway commissioner. If such petition is found sufficient, an examination of the road is made and if it is determined that the improvement is necessary for the public interest a survey is made and specifications are prepared with estimates of the cost of the road. A hearing is had of all parties interested who are given an opportunity to present objections to the making of the improvement. If, after such hearing, the board of county road commissioners, or the state law is in regard to cattle running at large. I have asked my neighbors to keep their cattle out of my crop and one man told me to go ahead and shut them up but it, would cost me more than I would get out of it. I haven't any fence. Do I have to fence to keep stock out of my crop? There isn't any fence joining me. If there is a law to make neighbors keep their cattle shut up, who is the local official to appeal to?—B. F. R.

The townships can yote as to the found sufficient, an examination of the of determination is made; and the cost

parcel shall be assessed in the proportise according to the statute. tion that it is benefited by the improvement. Likewise, there is no specific limitation as to the distance from the road that property can be specifically taxed. If a road is entirely within one county, it is quite possible that land situated in an adjoining county are added, "or to the survivor of them, may be specifically benefited and hence liable to a specific tax. In such a case the proceeding is conducted by the state highway commissioner rather than by the board of county road commissioners in the county where the cally taxed. If a road is entirely withmissioners in the county where the road is .- L. W. CARR, Deputy State Highway Commissioner.

WEAK DUCKLINGS.

let them out. I feed equal parts bran, tenancy—that the survivor shall take corn meal and middlings with a little the whole estate. A better phrasing yellow sand in a wet mash four times would have been: "To hold as joint a day. They have a pile of gravel to pick at. They always have clean drinking water, but none to swim in. They were hatched under hens and hens care for them.

Wayne Co.

When ducklings are about a month old they have large appetites and on the range they may overeat. Then digestive troubles may result. At that the organization of an exchange? age they are very sensitive to the hot sun and may be greatly weakened by breeding stock might be the cause of 29 and 30.

the ducklings losing their appetites and becoming droopy.

There is a disease of young ducks Will you please explain construction called infectious articular inflamma-of roads under Covert Act? What tax-tion. It causes lameness, loss of appe-es are levied on the farms fronting tite and diarrhea and the bird may die in three or four days. The only treatment recommended is to bathe the infected joints twice a day with hot water. But this takes a lot of time as thirty-minute treatments are recommended and this seriously cut the profits in the duck business.

Your feeding methods and range seem quite satisfactory for raising ducklings. You might cut down the corn meal to about fifteen per cent of the mash. Then mix in about ten per cent of beef scrap and some green food such as clover or green rye. Study the condition of the breeding stock and find if a lack of vitality in the ducklings may not be a cause of their R. G. K. weakness.

TRESPASSES BY STOCK.

The townships can vote as to the er, are of the opinion that the improve-use of the streets and roads of the ment should be made, the final order town by running cattle at large; but such vote does not excuse the owner of the improvement is assessed upon from liability to anyone on whose land land particularly benefited and upon they trespass while so running at large the townships and counties at large and there is no duty to fence against them. The man onto whose land they No assessment, may, however, be stray may impound and have them adlevied against the county at large un-vertised as strays, and require the less the same is operating under the owner to pay the damage to redeem county road system. There is no set them. If there is a town pound they rule with reference to the assessments should be taken to that pound. If not, to be levied on property along the road. the person finding them on his place The theory of the law is that each may impound them there and adver-

J. R. R.

JOINT TENANTS.

Manifestly, the person drawing the deed did not understand the law on the subject. Only husband and wife can be tenants by the entirety. Others can be joint tenants. Any two or more may be tenants in common. Pre-Will you please tell me what is the sumably what the writer of the instrumatter with my Pekin ducklings? They do fine until about a month old, then begin to lose appetite, droop, get weak in legs and die. I keep them in grassy pens until about, three weeks old, then let them out 1 food weeks old, then tenants and not as tenants in com-J. R. R.

"COOP" ELEVATORS ORGANIZE EXCHANGE.

SUBSCRIBER.

This meeting will be held at the exposure. A lack of vitality in the college, East Lansing, Michigan, June



"The use of a truck on Goodyear Cord Tires has revolutionized my farming methods. It picks up scattered crates of cabbage and lettuce very fast and hurries them over the fields to roads and over the roads to the railroad—the shortest route in the shortest time. Equals three teams with three drivers; improves and economizes."-S. P. James, Truck Farmer, Bartow, Florida

A REVIEW of much evidence, of the kind presented here, makes plain that Goodyear Cord Tires on trucks equip them to improve farming methods and reduce costs quite generally.

It makes clear that the change from slow hauling, either by teams or solid-tired trucks, goes even farther than such improvement and saving because the daily routine is made more agreeable.

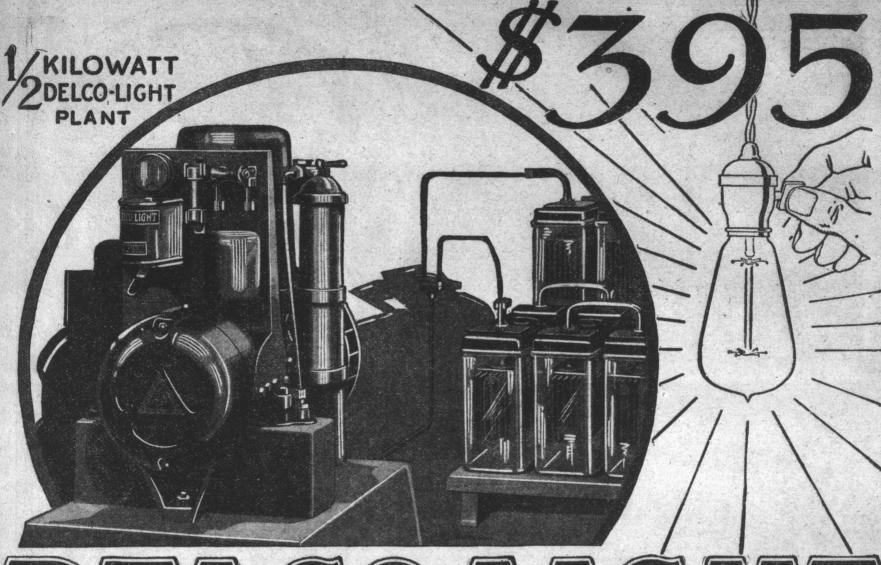
Many farmers say that never again will they endure tedious driving and the failure to get home until after sundown; they now know the spryness, comfort and reliability of the sturdy cords.

In every part of the country today farmers' motorized work is humming faster, the crops are moving more smoothly, the profits are growing fatter since every haul is quickened and cushioned by the big Goodyear Cord Tires.

This has followed the development of Goodyear Cord construction out of that careful endeavor which protects our good name and which, in this case, provides the strength and suppleness leading to the success of pneumatic truck tires.

The merit of Goodyear Cord Tires for trucks, and the increased value of trucks released by them from solid tire handicaps, are described by rural users in reports furnished by mail from The Goodyear Tire & Rubber Company, Akron, Ohio.

BAR CORD TIRES



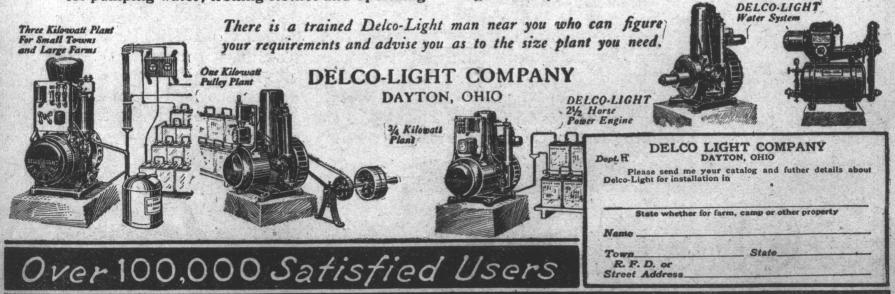
DEILCO-LIGHT

A new model—the ½ Kilowatt is now added to the family of Delco-Light products—making a line of farm light and power plants that meets varied needs, large or small.

And the price is \$395, f. o. b. Dayton, Ohio

The ½ Kilowatt is a smaller size Delco-Light plant, designed for installation where the use of electric light and power is not too heavy, such as in farm homes, summer camps and motor boats. The ½ Kilowatt plant with a large battery can be used for pumping water, ironing clothes and operating

churns, separators and other power devices. Like the 34, 1 and 3 Kilowatt Delco Light plants—the ½ Kilowatt has the famous valve-in-the-head engine. It is air cooled, runs on kerosene, and is furnished with a thick plate long-lived Delco-Light battery.



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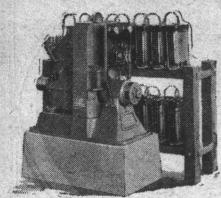
WORLD EVENTS IN PICTURES



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THE VALLEY OF THE GIANTS

A ROMANCE OF THE REDWOODS

By Peter B. Kyne

The Colonel laughed with a fair imi- words Eugene Field's poem of child tation of sincerity and tolerant amuse-hood, "Little Boy Blue." "My dear, that is no mystery "The little toy dog is covered with There are men who, finding it ible or inadvisable to make a had the little toy soldier is red with attack upon their enemy, find to me. There are men who, finding it impossible or inadvisable to make a physical attack upon their enemy, find ample satisfaction in poisoning his fav-orite dog, burning his house, or beating up one of his faithful employes.

And the soldier was passing fair;

Cardigan picked on Rondeau for the And that was the time when our little ing up one of his faithful employes. reason that a few days ago he tried to hire Rondeau away from me-offered him twenty-five dollars a menth with Cardigan's proposition, I prompt to be defiant, I suppose." ly met Cardigan's bid and retained nity to vent his spite on us."

der," he continued philosophically, "it's and died away entirely. all in the game, so why worry over it? And why continue to discuss an unpleasant topic, my dear?"

challenged her attention. "I think gayly. that man is badly hurt, Uncle," she suggested.

"Serves him right," he returned coldly. "He tackled that cyclone fully underestimate him." twenty feet in advance of the others; if they'd all closed in together, they would have pulled him down. I'll have that cholo and Rondeau sent down and deserve manhandling-"

melody was hauntingly plaintive—the

boy blue, Kissed them and put them there."

"Light-hearted devil, isn't he?" the more than I was paying him. Of Colonel commented approvingly. "And course, when Rondeau came to me his voice isn't half bad. Just singing

Shirley did not answer. But a few Rondeau; consequently Cardigan hates minutes previously she had seen the us both and took the earliest opportu- singer a raging fury, brandishing an axe and driving men before him. She could not understand. And presently dirt and leaves from his tweeds. "Thun-

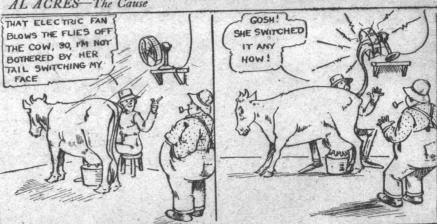
Her uncle took her gently by the arm and steered her toward the caboose. "Well, what do you think of A grean from the Black Minorca your company now?" he demanded

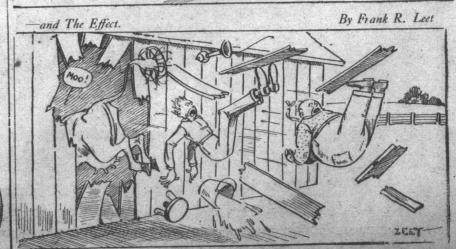
"I think," she answered soberly, "that you have gained an enemy worth while and that it behooves you not to

CHAPTER XVII.

HROUGH the green timber Bryce Cardigan strode, there was a lilt in his heart with the next trainload of logs to the now. Already he had forgotten the company hospital. They're a poor lot desperate situation from which he had just escaped; he thought only of Shir-They paused, facing toward the tim- ley Sumner's face, tear-stained with ber, from which came a voice, power-terror; and because he knew that at ful, sweetly resonant, raised in song. least some of those tears had been in-Shirley knew that half-trained bari-spired by the gravest apprehensions tone, for she had heard it the night as to his physical well-being, because before when Bryce Cardigan, faking in his ears there still resounded her his own accompaniment at the piano, frantic warning, he realized that howhad sung for her a number of carefully ever stern her decree of banishment expurgated lumberjack ballads, the had been, she was nevertheless not inlunatic humor of which had delighted different to him. And it was this her exceedingly. She marvelled now knowledge that had thrilled him into at his choice of minstrelsy, for the song and which when his song was (Continued on page 938).

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And still furthermore, as long as with paint, as with verything else, there is al-

ways some one paint that is better than all others, why not have that one?

Why not have it, especially if the makers can prove to you that it actually costs less per job, even if it should happen

The Lowe Brothers company

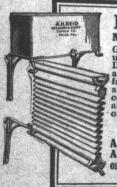
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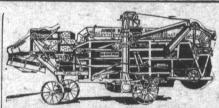
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Battle Creek

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The Missionary Farmer

Our Weekly Sermon-By N. A. McCune

missionaries go steadily on, the path. long ago that no trace of the body rethe greatest romances' of modern scheme. He engaged dozens of coolies times.

of Paton among the cannibals of the ter it on the barren hillsides. That New Hebrides, or Mackay, the civil took time and it was mighty hard work. engineer who went as missionary to But at last it was done, whereupon Uganda, of Gilmour, who went alone tree planting began. Thousands and to work among the Mongols, of the thousands of vigorous young trees founders of Robert College in the were planted; fruit trees of all sorts, heart of Turkey, or of Mary Slessor, black walnut, black locust, yellow pine, the little Scotch woman who ruled white pine, maple and others. Things whole tribes of savages in Africa for were going well, and the missionary many years. I believe in missions be- was happy. At least those particular cause the founder of Christianity be. hillsides would be washed by the winlieved in them, and second, because of ter rains no more. what missions have actually done. THEN something happened. An old Some people still believe that the missionary is a long-haired person with grave of one of her ancestors, and acheavenly views of life, who goes to cidentally started a fire that spread Africa and teaches the natives how to over nearly all the territory that had repeat the twenty-third psalm. And of been planted to trees. But the miscourse, the missionary does teach the sionary did not resign and return to natives how to repeat the twenty-third America. No, he said he had made a psalm and a great deal besides, of a mistake in planting, and now he would purely religious nature. But he also plant right. There should be a fireshows the native that religion has to break every little way, so that if a fire do with all life and that the first thing started again, it would not jump over he must do now, is to learn how to live this fire-break. And once more, as if a righteous and a useful life.

ful should happen. The best sites for think of a missionary like this?

O, I know that some folk do not tree planting were occupied by cemebelieve in missionaries, but I do, teries. But this Irish-American misand that's why I want to tell sionary would not give up. He said about one or two today. Some folk living people were of no more consemay not believe that three times three quence than dead people, and he actuis nine, but that doesn't bother the ally got permission to move some of multiplication table a particle, and these graveyards. They soon found three times three goes merrily on, that frequently a grave had no occumaking nine all the time. And the pant, for the dead had been buried so finders of civilization, whether certain mained. But the soil would not proindividuals believe in them or not, duce. It was hopelessly washed. Then The fact is, that missions constitute the misisonary brought forth his pet to dig the muck from the shores and There is no story greater than that the bottom of a nearby lake, and scat-

woman was burning paper at the by magic, the trees were planted, and once more the mountain side was FEW years ago, there went to green. And every few rods there is A FEW years ago, there went to green. And cred living, with his China an Irishman with red hair, now a forest keeper living, with his That is, he was Irish by descent, but family, who raises crops in the open American by nationality and a mission-stretches and keeps jealous guard over ary by choice. He had not been in the young trees. But the story does China long before he found himself not end here. For the government face to face with famine, and after had been watching this missionary, famine, the plague. People were dying and one day His Excellency Chaig by thousands. If he went along the Chien, the Minister of Agriculture and street and lifted up a mat, under the Commerce, came and planted a tree mat was sure to be a dying man. The on the missionary's grounds, and thus people were dying, for the floods had established a national Arbor Day for destroyed the crops, and their weak- all China. What this will mean to ened condition made them a ready China only those who have been there prey of disease. We must teach them can estimate. It will mean that barhow to grow better crops, thought our ren hillsides will be planted to trees, missionary. But, alas! the soil was and that land that has been idle for incapable of yielding crops. The trees centuries will begin to bear. It will had been cut centuries before, and the mean, too, that more and more floods fertility of the soil had been washed will be controlled, for the winter rains into the lakes and rivers. Moreover, will sink into the soil, and not rush there were the graveyards. Superstidown the hillsides into the rivers, to tion does not permit the Chinese to carry death and destruction into tens move the dead, lest something dread- of thousands of people. What do you

The Valley of the Giants

(Continued from page 936).

done had brought to his firm mouth a not see the sun; yet with the instinct ing light of confidence and pride.

The climax had been reached—and in two hours his long, tireless stride a perfect cleaning mill. Beats out the grain where other threshers mind's eve ever since the knowledge camp stood. He went directly to the the knowledge liest fruits of hostilities would doubt- ging-trucks. as a bandmaster swings his baton; he loaded. and was now free to fight it out un- ed of the donkey-driver. hampered.

Up hill and down dale he went. Be- copiously, wiped his mouth with the cause of the tremendous trees he could back of his hand, and pointed. "Up

nobility that presaged his old whim- of the woodsman, an instinct as infallisical smile—to his brown eyes a beam- ble as that of a homing pigeon, he was not puzzled as to direction. With-

passed; and the result had been far brought him out into a clearing in camp stood. He went directly to the had come to him that be was doomed log-landing, where in a listless and to battle to a knockout with Colonel half-hearted manner the loading crew Pennington, and that one of the ear- were piling logs on Pennington's log-

less be the loss of Shirley Sumner's Bryce looked at his watch. It was prized friendship. Well, he had lost two o'clock; at two-fifteen Penningher friendship, but a still small voice ton's locomotive would appear, to back whispered to him that the loss was not in and couple to the long line of irreparable—whereat he swung his axe trucks. And the train was only half

was glad that he had started the war "Where's McTavish?" Bryce demand-

The man mouthed his quid, spat

at his shanty," he made answer, and grinned at Bryce knowingly

Up through the camp's single short street, flanked on each side with the woodsmen's shanties, Bryce went. Dogs barked at him, for he was a stranger in his own camp; children, playing in the dust, gazed upon him owlishly. At the most pretentious shanty on the street Bryce turned in. He had never seen it before, but he knew it to be the woods-boss's home, for unlike its neighbors the house was painted with the coarse red paint that is used on box-cars, while a fence, made of fancy pointed pickets painted white, inclosed a tiny garden in front of the house As Bryce came through the gate, a young girl rose from where she knelt in a bed of freshly transplanted pansies.

Bryce lifted his hat. "Is Mr. Mc-Tavish at home?" he asked.

She nodded. "He cannot see any.

body," she hastened to add. "He's sick.'

"I think he'll see me. And I wonder if you're Moira McTavish."

"Yes, I'm Moira."

"I'm Bryce Cardigan."

A look of fright crept into the girl's "Are you-Bryce Cardigan?" she faltered, and looked at him more "Yes, you're Bryce. You've changed-but then it's been six years since we saw you last, Mr. Bryce.

He came toward her with out stretched hand. "And you were a little girl when I saw you last. Now—you're a woman." She grasped his hand with the frank heartiness of a "I'm mighty glad to meet you again, Moira. I just guessed who you were, for of course I should never have recognized you. When I saw you last, you wore your hair in a braid down your back."

"I'm twenty years old," she informed

him.

"Stand right where you are until I have looked at you," he commanded, and backed off a few feet, the better to contemplate her.

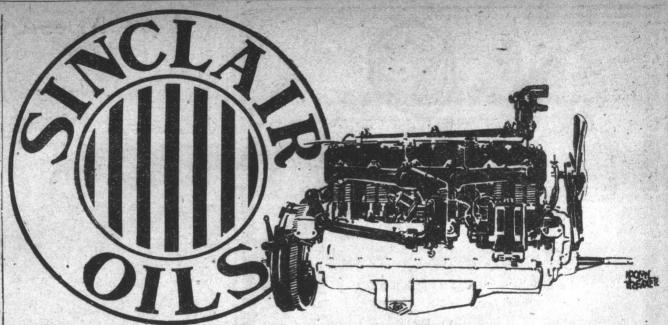
He saw a girl slightly above medium height, tanned, robust, simply gowned in a gingham dress. Her hands were soiled from her recent labors in the pansy-bed, and her shoes were heavy and coarse; yet neither hands nor feet were large or ungraceful. Her head was well formed; her hair, jet black and of unusual lustre and abundance, was parted in the middle and held in an old-fashioned coil at the nape of a neck the beauty of which was revealed by the low cut of her simple frock. Moira was a decided brunette, with that wonderful quality of skin to be seen only among brunettes who have roses in their cheeks; her brow was broad and spiritual; in her eyes, large, black, and listrous, there was a brood ing tenderness not untouched with sorrow-some such expression, indeed, as da Vinci put in the eyes of his Mona Lisa. Her nose was patrician, her face oval: her lips, full and red, were slightly parted in the adorable Cupid's bow which is the inevitable heritage of a short upper lip; her teeth were white as Parian marble; and her full breast was rising and falling swiftly, as if she labored under suppressed excitement.

So delightful a picture did Moira McTavish make that Bryce forgot all his troubles in her sweet presence. "By the Gods, Moira, ly, "you're a peach! When I saw you last, you were awkward and leggy, like a colt. I'm sure you weren't a bit goodlooking. And now you're the most ravishing young lady in seventeen counties. By jingo, Moira, you're a stunner and no mistake. Are you mar-

She shook her head, blushing pleasurably at his unpolished but sincere compliments.

"What? Not married. Why, what the deuce can be the matter with the eligible young fellows hereabouts?"

(Continued next week).



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Woman's Interests

Does Mary Really "Love" To Work?

time to take care of their own jobs fore Mary is sure of an empty house. and those of the idlers. A clever club In between she is trying to can and woman aptly dubbed the two classes pickle and tend the garden. Keeping "Diggers" and "Shiners," and paid her the sewing and mending up is out of respects in verse to the women who the question. She has casually menalways want to pour tea, while some- tioned how darning and mending pile one else stays in the kitchen to keep up to various and sundry of her guests the kettle boiling. But we don't need and even brought out the basket and to go into the clubs to see the distinc- started to mend one day, with the faint tion, we can find it in every family hope that some one of the women that is large enough to boast of four would turn in and help. But when it or five members. There are always comes to mending the guests develop some who slip out from under all the a singular blindness and deafness. hard work with the easy assurance They simply never see the work piled that "George," or "Mary," as the case up there, nor notice that Mary's chilmay be, will do it, because they just dren go buttonless, while Mary's hus-"love to work."

much as Phylis, but is that any reason himself. why she shouldn't have some play of a mistaken sense of duty?

ing neices and nephews and sisters the spare time? and brothers living in cities and small towns. As soon as school is out in June, all thoughts turn fondly to Aunt Mary. She just loves children. They don't bother her a bit. Besides, she hasn't anything in her house they can hurt. So along about knee deep in June, Sister Susie writes the children are so anxious to see Aunt Mary she has decided to let them come up for a couple of weeks as soon as school is out.

Brother John hates a city Fourth, with its noise, and his soul yearns for country quiet. He drops a line, the first in a year, saying that he and "Mother" will run up for the Fourth with the kiddies. He leaves the city's din, but brings along enough crackers and toy cannon fodder to turn the there, and the children can have such all parents may well think upon. loves it.

will be up the first of August. Tom is their minds with trashy love stories

HE world is divided into two followed by a cousin or two with their classes-those who do not like descendants, even to the third and to work and don't; and those fourth generation, and it is really the who don't like to work, but do over-middle of September and fair time, be-

band occasionally takes needle and Maybe Mary doesn't hate work so thread and does a bit of sewing for

Of course Mary loves company and time? Probably Mary would be glad is glad to see her friends. But I wonof an hour or so to sit down and read der if she just loves to have the whole or do fancy work if someone else could family camp out on the farm every give up a little of their leisure and summer. I wonder if she is so fond of help her out. Because Mary staggers work that she really enjoys getting up along under burdens we wouldn't want at daybreak and "digging" until dark, to carry, and always keeps a smiling while a houseful of guests "shine" on face, are we to assume it is because the porch or in the lawn swing. I she likes it Or because she has a con- wonder, too, if through the fall, winter science out of all proportion to her and spring, she enjoys working every size and does her work and ours out minute so that father and the children can have the best to eat and wear, and Here's Aunt Mary, for instance. She leisure for reading and play. Don't lives on a farm where butter and cream you think Mary would just love a little and milk and eggs and fresh fruit and division of labor, a little help with vegetables don't cost her a thing. They picking up and cooking and dishwashjust grow. She has a number of lov- ing so that she might have some of

Good Reading



7 HAT are the farm boys and girls reading? Are they reading at peaceful countryside into a miniature . all? What are we doing to "Marne." Brother John goes home supply good reading for the boys and all? What are we doing to after the holiday, but leaves "Mother" girls? What can we do to create a and the boys for a little outing with desire for good reading in our young Mary. Sister's Susie's children are people? These are some questions that

time together. And Mary just In the first place, boys and girls read several classes of matter that The July guests depart in due time, may or may not be called literature. and reluctantly. Mary manages to They look over the papers and magaclean house for the second time, and zines that come regularly to their is just wondering if she can't get away homes and read what appeals to them. to the lake for a week, when fresh let- Sometimes they are persuaded by unters arrive. Brother Tom has his va- scrupulous people to invest ten or fifcation the first two weeks in August, teen cents in some paper or magazine and there is no place like Mary's to or story book that is not exactly highspend it. Her blackberies are at their class. Here let me partly answer our best, the yellow transparents are just last question. Allow no paper, book coming on, and some years the early or magazine to come into your home melons are ready before the fifteenth that does not furnish clean, high-class of August. He and the wife and baby reading matter. Are your girls filling



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found in the cheap story papers? And are your boys reading cheap detective stories and impossible adventures? We say "cheap" stories, but though they are cheap in money they are expensive in the damage they do. There are good love stories. And there are most interesting detective stories and stories of adventure and fiction that are founded on facts and instill only the highest sentiment in the minds of those who read them.

There are several ways in which high-class reading may be supplied. Perhaps someone says, "How can we tell what is good reading for our children or ourselves?" Here is a test, apply it to every periodical and book that comes into your home and weed out everything that does not come up to its standard. If any reading matter develops higher ideals, a clearer vision of life; if it stimulates your ambition to succeed, develops a keener appreciation of the joy of living, or a clean, healthy sense of humor, it is fit reading for any person of any age, provided it is suited to their under-

Some people say they cannot afford several dollars a year just for papers for children. If it is helping to educate them and give them high ideals in life, most people can afford much more than that. However, for those who really cannot afford to invest extra money in books or magazines there are other ways. In nearly all states every school district is entitled to a good library and all books must be chosen from a list sent out by the state superintendent. Books have been seen in some school libraries that might much better have been in the stove. The state traveling libraries give free access to hundreds of volumes of the best fiction, science, history, adventure, etc., that is published.

In a district where many of the parents were foreign speaking people the teacher brought several copies of some of the best magazines to school and interested her pupils in them. Then she asked her pupils to each bring what they could to help subscribe for some of them. They secured enough to pay for three of the best periodicals. The pupils read them as regularly as they came and the articles and news events were used in the various classes. The primary grades cut out pictures and pasted them in a number of scrap books illustrating the seasons, occupations of the world, countries, etc. The big plain letters on the covers and advertising pages were cut out in squares and used by the little tots in making words and in learning colors.

However, that is almost another subject. These are some of the things that can be done to supply reading for young people. Among the foreign speaking people the taste for good reading must be acquired from the reading put before them at school. If a boy or girl does not care to read at all it is either because he has not been properly taught to read printed words or has never had any interesting matter put before him to read. In a case like this if he is receiving no incentive at school the parents should try to obtain reading that will be interesting and suited to the child's age.

Above all, boys and girls should be taught to enjoy poetry." Let them read it aloud frequently and learn to express the meaning, not merely "sing song" the words, and it is surprising how soon they will begin to really read poetry. If every person could be impressed with the fact that through reading, almost more than any other source, we receive our outlook upon the world, how much more we would read of what is really worth while.

LENNA LEA.

Put an asbestos mat under the pan when cooking oatmeal or anything of that sort, as it may then be cooked much longer without burning.—Mrs. A. F.



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Our Boys' and Girls' Page

Watch for the Dog Man!

By J. H. Brown

obey the law and get rid of the bad looks and actions. law requires.

the picture. It is taken from life.

Pauline has heard her folks talking law. about how all dogs were to be arrested This law was passed so that farmunless they had collars and license ers could keep sheep and not be in tags. Her dog Trixy has a nice collar, constant danger of having them killed but needs a new license tag in order or mangled by mean dogs that had not to be in style and safety for the com- been brought up right. And it is a ing season. She has vowed that no good law, though there are many dogdog catcher can get Trixy because she gies, and even big dogs, that would has delegated herself as guardian, never think of being so mean as to And you can easily see, from the look injure a sheep or little lamb. out of her eyes and the grim determi-

OF course, there are both good and some time later he found both dogs in bad dogs in Michigan, in the ordi- this family were registered and licensnary acceptation of the term, and the ed and wore collars like nice little dognew dog law will ultimately get some gies. And the dog man patted both of both kinds, if their owners don't children on their backs and compliwatch out. The thing to do is to mented the whole bunch on their good

dogs anyway. All good dogs should be And you can be sure that Pauline licensed and looked after, just as the and Tom saw to it every night before sundown that their doggies were tied Here is a case of two good dogs in or confined so they could not wander one family. And the Michigan Farmer away from the premises during the boys and girls will be interested in night. And that is just what every dog owner should do under the new

We are very sorry to end this story



Pauline and Tom Waiting for the Dog Catcher.

nation shown in her folded arms, sit- by saying that later on little Pauline

plained the situation and the legal as- enemy. pect of the case to him in words and gestures that he readily understood. He immediately took a quick hitch in his lower garment and grabbed his recently hatched puppy with a clutch that boded ill to any enemy of his. With his few teeth set together and lips pinched closer than a brother, he has lined up beside Pauline, and the leaving right away.

Says little Tom: "Nay, nay, Pauline; no bad man gets our doggies, you

ting on a box with her back to the was taken sick and died quite suddenfence, that she will fight until the last ly. And still later Trixy died. Pauldog catcher expires before any mere ine's parents were heartbroken, but minion of the law can get her doggie. they, and we, know that all is well And her little chum feels just the with her in a better land where she same way about it. Pauline has ex-does not have to watch or wait for any

Boy and Girl Helpers

By Uncle Ed.

D E good boys and girls, now, while DI am gone." It was the usual parting injunction, and it brought puppy feels that he is in no danger of the same old response we know so

"Yes, Father. We will."

But that farmer man was not prebet. We'll scare 'em away. We'll pared for the surprises that awaited look 'em right in the eye just like this, him upon his return after an absence That's the way mamma does when of several days. Of course, many some folks come to the door; and then things about the farm had to be put they turn around and walk off. I'll off while Father was making his trip. take care of you and Trixy. See?" Nobody can take the place of Father, But when the dog man came around anyway. But most of the crops, the

big things of the farm, had been kept up so they were in good condition.

Dick was the first to surprise his father. Haying was close at hand When the mower had been put away, the pitman was broken. Father knew it, and he intended to get around to fix it: but other things crowded it out of his mind. But here it was, when he was ready to hitch on to it, all mended up as good as new. Dick did some sweating over that job, for it was his first venture in that direction, but the grateful words he got from father far more than repaid him for all that. How it does lighten up a boy's steps to know father thinks he has done well!

And then, there were the section bars. Some of the knives were worn down to a point and would not do good work. Father had bought a new box, and Dick knocked every one of those peaked, worthless sections out and riveted in bran new ones. That was sur prise number two for father, and by this time he was beginning to wonder what would be the next thing his boy had fixed up while he was away.

Dick had not done all the repair work, however, as father soon learned. Mary and Jess had had their thinking caps on, too. In fact, father was no more than out of sight when the boys and girls held a council of war all by themselves.

"What do you say, girls, to our doing some things father never would expect us to do while he is gone? know we can learn how to use some of the tools, so that we can do good work with them. I'll take the carpenter tools and you the soldering kit and things like that. It will be a little harder for you than it will for me, because I have tinkered with saws and such things, but I don't believe you ever looked at the mending kit. I'll stick round, though, and help you out when you get ready."

It did not take the girls long to get ready after that. Before night they had the soldering iron out and mended some bad places in milk pails and cans. Dick caught them right at it, for they did not wait for him to "stick round." "We'll show Dick we don't need any of his help!" declared Jess bravely. But they sweat over those milk cans a lot more than Dick did while putting in the new pitman. The big drops just trickled down their faces. It was hot in the kitchen and somehow they were bungling things to handle. But they did not show the white feather, and Dick smiled when they set the cans and pails back on the milk platform.

"We'll be fair about it, Dick. Mother helped us some."

"It is their job, though," Mother insisted, "and don't you think they did a good piece of work, Dick?"

"Should say they did. They'll be hanging out a shingle pretty soon." "Alongside of yours' Dick?"

And they had their laugh over it, and the smiles and the kind words they got from father were worth all the sweating and the burnt fingers. Nor were the cans and the pails the only things the girls mended. They had to borrow some of Dick's carpenter tools, and at first he was a bit afraid to let them have them.

of them, girls," he cautioned. "It's such an easy thing to get saws on nails and to dull the other things." But he need not have keen so particular about his warnings, as he soon learned. Jess and Mary must have had something of the carpenter's knack about them, for the way they handled those tools was a caution. That was not the last of it, either. In the days which came after that whenever anything got broken, father knew just where to go to get it mended. And the work was done upon honor, always.



Corn Harvesting Certainty



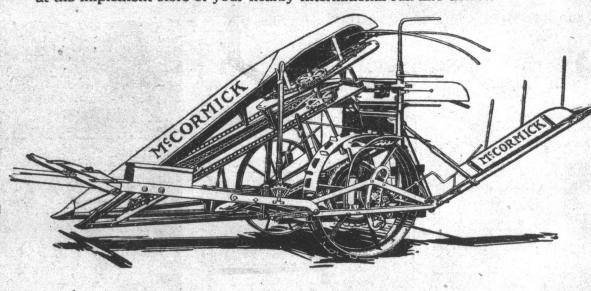
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Additional Poultry Ads on Page 947

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Effies Lass 238203 sold on May 6th for \$7100. She was sired by Black Monarch 3rd. We are offering for sale Editor of Wildwood 295059 a full brother in blood lines to Effies Lass also four more choice bulls which are old enough for service and sired also by the champion show and breeding bull Black Monarch 3rd.

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Richland Stock Farms Home of the Michigan Champions.

Shorthorn Sires in Service: Shorthorn Shes in Service.

IMP. Lorne, IMP. Newton Champion, Sterling Supseme. Why not buy a young bull to head your herd that carries the blood that is making shorthorn History. Only a few real headers left. Write your wants.

C. H. PRESCOTT & SONS. Tawas City, Mich.

For Sale Shorth orns of Quality Scotch and Hope, Avondae, Max waiton Sulton and White Hall Sulton. Model Type, by the Oscola Co. Shorthorn Breeders Ass. John Sch midt, Sec. Reed City, Mich.

Central Mich. Shorthorn Breeders Asso, offer 40 bulls, 38 females, write for new list, OSCAR SKINNER, Sec. Gowen, Mich.

Shorthorns Scotch and Scotch Topped bulls and heifers priced right. Sultan Champion heads herd, one scotch two yr. old herd bull by Red Cumberland priced right.

H. J. FLOWER & SON, Milo, Mich.

The Kent Co. Shorthorn Assn. have males and for sale. A. E. RAAB, Sec., Caledonia, Mich.

Milking SHORTHORYS. Clay bred bull calves Herds under Federal Supervision. Davidson & Hall, Beand & Beland, Tecumseh, Mich.

Shorthorns Good Scotch bred bulls, cows and heifers priced right,
W. B. McQUILLAN, R. 7, Howell, Mich. Shorthorns Scotch and Scotch Topped, only a few left at old prices. W. J. BELL, Rose City, Mich.

M EADOW Hills Shorthorns. Herd headed by Silver King, full brother of Lavender Sultan Purdue University's great sire. For sale females of all ages, a few young bulls. Geo. D. Doster, Doster, Mich.

St. Joseph Valley Shorthorn Ass'n has for sale males and females of all ages and best breeding.

ARON HAGENBUCH, Sectreas Three Rivers, Mich

For Sale Milking Shorthorn Bulls from two to 16 mo. old. Dams giving over 40 and 50 lbs. per day. Yearly records kept. Herd tuberculin tested.
JAS. H. EWER, R. 10, Battle Creek, Mich.

Reg. Red Polled cattle choice young buils from 6 to 18 mo. old for sale. FRANK KEBLER, R. 1, Grand Ledge, Mich.

For Sale One Thoroughbred Brown Swiss Bull. Nine months old.
E. H. EISELE, Manchester, Mich.

HOGS

Berkshires size with quality is our special-ty. Write your wants to M. G. MOSHER & SONS. Osseo, Mich.

Registered Berkshires, Gilts, and Sows bred for April May and June farrow. A yearling Boar and a few younger. Spring pigs. Chase Stock Farm, Marlette. Mich.

Large Berkshires. Herd boars, bred gilts, spring pigs. Satisfaction guaranteed.
W. H. EVERY, Manchester, Mich.



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

Duroc sows and gilts bred to Walts King 22 at the State Fair in last 2 years than any other Duboar. Everyone will be a money maker for buyer. Cat. and price list.

St. Johns, M. NEWTON BARNHART,

Michigana Farm Durocs

We breed and sell good hogs.

O. F. FOSTER, Mgr. - Pavilion, Michigan

ROYAL BRED DUROC GILTS ams stred by Michigan Cherry Col. Bred to Jacks erry Orion King, No. 169259, Son of the \$10,000, champ-n, Jacks Orion King Znd, all high class stock, write r prices. The Jennings Farms, R.1, Bailey, Mich.

DUROC JERSEYS Two sows of great breeding and choice individual weighing about 300 lbs, each due to farrow in June price \$85 each, first checks get them. RUSH BROS.
OAKWOOD FARM, Romeo, Mich

DUROC JERSEYS Bred gilts all sold. Get in your orders early for March and April pigs. Either sex or pairs not akin, F. J. DRODT, Monroe, Mich. R. 1.

DUROC JERSEYS E.D. HEYDENBERE, Wayland, Mich.

OUR FARM BUREAUS.

(Continued from page 931). their barn and equipment is equal to any in the county.

Armstrong Brothers, on their ninety seven-acre farm five miles from Fowlerville, have a few Holstein cattle, but their specialities are Poland China hogs and Shropshire sheep.

On the return trip to Howell we visited the farm of Jay B. Tooley, who has developed several cows with records of from twenty to twenty-seven pounds of butter in seven days. Mr. Tooley is using for a sire King Korndyke Kalmuck, a son of the forty-five pound cow, Niva Kalmuck. He is president of the Livingston County Holstein Association and a live wire in the Holstein game.

EAVING the Holstein trail we drove over to Smith and Parkers, four miles north of Howell, where we found an excellent herd of about fifty Jerseys. The senior herd sire is a grandson of that famous sire, Jacobia Irene, and the junior sire is from the Tormentor and Pogis line of breeding. They have been breeding Jerseys for more than eight years and have a herd of large, vigorous individuals. Their farm consists of two hundred and seventy acres and is equipped for handling the herd to good advantage.

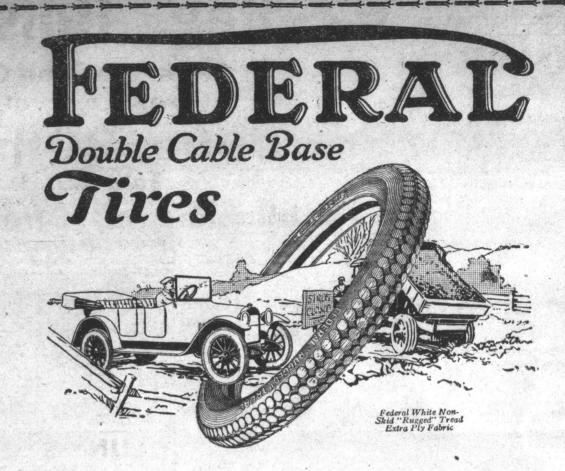
Over near Crooked Lake, six miles from Howell, on the road to Brighton, we found Wallie Knapp rattling around like a pea in a dishpan, on his two hundred and sixty-five-acre farm. W. W. is pretty busy these days with his farm and Shorthern cattle, but he found time to describe the breeding of his Imported Scotch bull, Dainty Prince. At present he has about thirty head of Scotch Shorthorns and a flock of twenty-five Oxford sheep. Always an active worker in the interests of the Shorthorn breed, W. W. is getting together a bunch of good cattle and getting his farm in shape to enlarge his business.

Further along the road we visited W. B. McQuillan & Sons, who have an excellent farm of two hundred and thirty acres devoted to general farming and the breeding of Shorthorn cattle and Shropshire sheep. At the head of the herd is Butterfly Sultan, a Scotch bred bull of exceptional merit. Their junior sire is Cloverleaf Augusta, half-brother to the young bull that sold recently at Rosenberger & Sons' sale in Ohio for \$5,100. At present they have about forty-three head of Shorthorns on their farm.

Over the other side of Howell we found William Hosley working his three hundred and thirty-acre farm alone. Mr. Hosley is breeding Shorthorn cattle and conducting a general CHESTERS two good fall gilts bred to a boar of Wildwood crop-growing business. At the head of his herd is a son of W. B. McQuillan's Butterfly Sultan. Mr. Hosley has some excellent animals and will enlarge his herd as soon as his sons return from college and schools.

Over near Fenton, Skidmore Brothers have a fine farm of two hundred and forty acres, where they are breeding Guernsey cattle of the most popular lines of breeding. At present they have about thirty head of females in their herd.

Thomas Lamoreaux, of Oak Grove, and Fred Teeple, of Pinckney, are breeders of Black Top sheep and both have excellent flocks. For the past few years this breed of sheep has been gradually coming to the front in Livingston county. In the sections where the Holstein industry has not gained a strong foothold many flocks of excellent sheep may be found. Fine wools predominate in these sections, O. I. C. & Chester White Swine and Black Tops seem to meet the demands of the sheep growers better than most of the other breeds.



The Strength of The Federal Union

Federal Tires are united with their wheels. Four enduring cables of stranded steel—the Federal Double-Cable-Base-grapple them to their rims inseparably.

This banishes the chief enemy of tires-rim wear.

Wheels cannot slip and grind within Federal Tires.

Thousands of Federal users are free from - tube-pinching; chafing and breaking of the fabric; rim-cuts and blow-outs just above the rim.

There is only one way to get this extra mileage—equip with Federals.

THE FEDERAL RUBBER COMPANY, of Illinois, Factories, Cudahy, Wis. Manufacturers of Federal Automobile Tires, Tubes and Sundries, Motorcycle, Bicycle and Carriage Tires, Rubber Heels, Horse Shoe Pads, Rubber Matting and Mechanical Rubber Goods

O. I. C. SOWS FOR SALE

One of the Best He ds in Michigan
Spring gilts and fall yearlings bred for March, April and May litters. I ship
C. O. D., pay express and register in buyer's name. If you want a BIG
TYPE sow, guaranteed right in every way, write me.
J. CARL JEWETT, R. 5, Mason, Michigan.

Nuroc bred sows and gilts sired by Orion Cherry King Col. 2nd., bred to All Col. of Sangamo 2nd. rst class lot, reasonable. W.C. Taylor, Milan, Mich.

Prince Jr. breeding for Sept. farrow; spring pigs. F. W. ALEXANDER, Vassar, Mich.



HAVE started thousands of breeders on the road to success, I can help you. I want to place one hog from me started the process of the process

The World's Champion

big type O.I.C's. Stock of all ages for sale. Herd headed by Calloway Edd, the World's Champion O.I.C. boar assisted by C.C. Schoolmaster. Grand Champion boar of Michigan, New York and Tennessee state fairs. Also, C.C. Giant Buster, undefacted Senior boar pig wherever shown and Grand Champion of Oklahoma state fair. Get our catalogue of Crandell's prize hogs, Cass City, Mich.

Strictly big type with QUALITY. Spring pigs own ready to ship. Never had better ones. Remember I was breeding Big Type 20 years ago. They have a right to be big. Write us for prices.

NEWMAN'S STOCK FARM, it. I. Mariette, Mich.

O. I. C's. One Sept. boar. March farrowed pigs of either sex.
O. J. THOMPSON, Rockford, Mich.

O.I.C's A few choice late fall and winter boars, also a fine two year old boar. WEBER BROS., R. No. 2. Royal Oak, Mich.

O. I. C's. Big type serviceable boars. Gilt G. P. ANDREWS, DANSVILLE, MICHIGAN

O.I.C. Gilts bred for March and April farrow, guarantee safe with pigs. Fall pigs and a few service boars Herd immuned by D. T. F. C. Burgess, R. 3, Mason, Mich.

O. I. C's Eight young boars and spring pigs oLOVER LEAF STOCK FARM, Monroe, Mich.

O. I. C.'s Booking orders for spring pigs, we register free and ship C.O.D.
A. J. BARKER & SON, Belmont. Mich. O I. C's. 5 last fall boars and 15 last fall gilts bred for fall farrow. Weight 230 to 325 lbs. extra good stock. Also this springs pigs not akin. ½ mile west of depot. Citizens phone 124. Otto B. Schulze, Nashville, Mich.

MILLER Meadow's L. T. P. C. boars all sold. Gilte Msired by General Jones and bred to our young boar Alaska, address CLYDE WEAVER, Ceresco, Mich

L.S.P.C.

One 400 lb. sow and 7 pigs by side, price \$100.00. One 275 lb. gilt and 6 pigs by side, price \$85.00. Two choice boars.

H. O. SWARTZ, Schoolcraft, Mich.

Big Type Poland Chinas

Our herd is representative of the best in Big Type, The \$40,000,00 "The Yankee", the \$50,000,00 "The Clansman" and the priceless "Giant Buster" are all represented We aim to keep up-to-date blood lines and only qualists stuff. Come over and see us PURLIC SALE OUT 26th.

WESLEY HILE, R. 6, Ionia, Mich.

Bred Sow Sale at Fairgrounds Augusti5th. Carey U. Edmonds, Hastings, Mich

B. T. P. C.

All sold out except some Fall Gilts. Thanking my customers.

JOHN D. WILEY, Schoolcraft, Mich

Big Type P. C. Bred gilts, Fall yearlings, prize win-ners, out 1100 lb. sire and mammoth sows from Iowa's greatest herds. E.J. Mathewson, Burr Oak, Mich.

BOARS! Oh Boys!

Sons and grandsons of the Mighty Giant Buster. The big boned useful kind. Priced for a quick sale. JNO. C. BUTLER, Bell Phone, Portland, Mich.

Big Bob Mastodon pigs takes the cake, book your order now. Fall boars and gilts sired by a grandson of Disher Giant, open or bred to Big Bob for Sept. 23 yearling sons. C. E.GARNANT, Eaton Rapids, Mich

Big Type Poland Chinas with quality, at re-of both sex, and bred sows and gills.

On the prices of both sex, and bred sows and gills.

On the prices of the

Big Type Polands all sold out. Watch this ad for further announcements. Breeding stock for sale in season. L. L. CHAMBERLAIN, Marcellus, Mich.

LEONARD'S B. T. P. C. bred sows all sold. Order booked for bo ar pigs at weaning time from Mich. Champion Herd. E. R. Leonard, R. 3, St. Louis, Mich

I am offering Large Type Poland China Sows, bred I to F's Orange, at reasonable prices; also fall pigs Write or call Clyde Fisher, St. Louis, Mich. R.R.3.

**Lindhurst" Poland Chinas
Mammoth Ben's Chief No. 352167 heads our herd.
Sows by Mammoth Ben, Upsome Lad, Joe Mastodon,
Gertsdale Jones, and Capt. Price. Pigs by Mammoth
Ben's Chief, Mountain Jack, and Orange Model. For Ben's Chief, Mountain Jack, and Orange Model. For sale fall boars and glits sired by a son of Bower's Man-moth Joe. A few herd sows priced to sell. Get in line for spring boars. WM. H. LIND, Citz. Phone, Alto, Mich,

6 th ANNUAL P. C. Bred Sow Sale March 13, 1920. For particulars write W. J. HAGELSHAW. Augusta, Mich LARGE TYPE P.C. SWINE. One yearling boar, fall pigs, a few more bred sows. R. W. Mills, Saline, Mich.

Poland China Brood Sows Bred for May and Maplewood Stock Farm, Allegan, Mich.

FOR SAUE A few L. T. P. O. gilts being bred for A. A. Feldkamp, Manchester, Mich., B. F. D. 2

FOR SALE Registered Big type Poland China glits bred for Sept. far-row, weighing 225 lbs. for \$60, apring pigs all sold, guar-antee satisfaction. DORUS HOVER, Akron, Mich.

Edgewood Hampshires All bred gilts sold. Now booking orders for gilts bred for fall farrow, and pigs for pig club work only. Depew Head, Edgewood Farm, Marion, Ohio.

Additional Stock Ads on Page 947

MENDO MENNO LICURA MESSIN LINES IN LINES IN LICENSE CASE IN LICENSE IN IN LICEN

FIRST EDITION.

The market reports in this edition delphia.

were revised and corrected on Tuesday afternoon, June 15 day afternoon, June 15.

WHEAT

The general outlook for the new crop is favorable over the greater part of the producing states. The market for flour is easy but feeds hold steady to firm. Detroit quotations are as fol-

No. 1 red	\$3.00
No. 1 mixed	2.98
No. 1 white	
No. 2 red	2.97
No. 3 red	2.94

CORN

Persistent buying of this grain gave prices a swing upward at the opening this week. Receipts have failed to increase as much as had been expected.

Casl	h	No. 3\$2.00	
No.	3	yellow 2.05	
		yellow 2.00	
		yellow 1.96	
		yellow 1.93	

OATS

Oats are in good demand, supplies are short and more or less crop damage has been reported from Illinois, Iowa and Indiana. Local values are as follows:

Cash No. 2	white\$1.30	
No. 3 white	1.29	
No. 4 white	1.28	

RYE

The receipts of rye are meagre and the market inactive at \$2.20 per bushel on the local market.

BEANS

The bean situation in Michigan is more promising for the season, due to the heavy reduction in the acreage planted in other bean-producing states and serious damage by rains to, and the greatly reduced acreage in the Oriental crop. The world's visible supply is lower than it has been for At Detroit cash beans are quoted at \$7.65 per cwt. Chicago's market is unchanged with choice hand-picked pea beans at \$8@8.50, and red kidneys at \$14@15.

Trade is steady to firm, being supported by a good demand. Quotations are: Bran \$58@59; standard middlings \$59@60; fine midlings \$60@62; coarse corn meal \$75@77; cracked corn \$85@ 86; chopped feed \$76@77 per ton in 100-pound sacks.

The supply of hay is decreasing and the market is firm with local prices as follows: No. 1 timothy \$37.50@38; standard and light mixed \$36.50@37; No. 2 timothy \$35.50@36; No 1 mixed and No 1 clover \$35.50@36; straw at \$12.50@13 per ton in carlots.

Pittsburgh.—Receipts of hay are altogether inadequate to supply the demand No. 1 timothy \$45@46; standard \$44@45; No. 2, \$43@44 per ton.

higher, with firsts at 38@39%c and the

WOOL

There seems to be a rather wide-spread belief among informed agricul-tural leaders that the trade is placing undue emphasis upon the bearish features of the present situation, hoping thereby to secure their wool supplies thereby to secure their wool supplies at a price which will enable them to realize good profits. Dealers' predictions of prices of manufactured goods do not support these bearish contentions. The following quotations are given out by Boston dealers: Ohio wool 75c for fine unwashed delaine; 70c for half-blood combing; 60c for three-eighths-blood combing; 58@55c for quarter-blood combing, and 64@65c for fine unwashed clothing.

GRAND RAPIDS

at \$6.50 per cwt and red kidney at \$12.

They are of the opinion the bean acreage will be 75 per cent of that of last year in Michigan. Milling companies cut the paying price of wheat 10 cents per bushel this week. No. 1 red is now \$2.80 and No. 1 white \$2.78. The winter wheat crop is making good progress, heading well Only a few localities report the crop somewhat thin. There is a further decline in the hide market and dealers state it is very weak, with indications of further drop in prices. Present prices are: Cattle No. 1 green 12c; No. 2, 11c; No. 1 calf culls and common \$4@6; yearling weth-higher and somewhat scarce Farmers sold on the city market this week for \$5.25 per bushel, field run. Farmers are marketing hay freely this week and the price has dropped to \$28 per ton for loose timothy. The strawberry crop is coming into market and first picking of Michigan berries sold for \$6.50 per 16-quart case. Egg market is steady at 32c bid, and one dealer since 1 signs.

THE from the forthcoming onion crop are that the acreage in western Michigan is equal to that of last year. At present the fields show excellent germina-

NEW YORK PRODUCE MARKET.

Butter.-The butter market has witnessed considerable activity during the week. As the season for grass duction has been greatly dela delayed, speculators began to fear that the storage season will be short, and constorage season will be short, and consequently were free purchasers the first three days of the week. Conservative reports show that there is a storage shortage as compared to last year's figures of about seven and a half million pounds. Considerable butter is arriving from Denmark but the quantity is insufficient as yet to cause any material effect on the market. Established quotations are: Extras 56½c per pound; higher scoring than extras per pound; higher scoring than extras 57@57½c; firsts 52@56c; seconds at 49@51c. Eggs.-

-Egg receipts are about nor mal for the season. The market has been irregular in tone. Quality is variable. Firsts 42@44c; extra firsts 45@47c; extras 48½@49c.

DRAINAGE DEMONSTRATION TOUR.

Farmers, rural leaders, and scientific and agricultural experts from various sections of Michigan will on Friday, June 25, unite in a demonstration tour of the drainage systems installed a year ago at various points in St. Clair county under the supervision of the Michigan American description of the Michigan will on Friends and the Michigan will be a supervised and the Michigan will be a supervised with the supervised with the supervised will be a supervised with the supervised will be a supervised with the supervised with the supervised wi the Michigan Agricultural College.
The results of the work done are now apparent and with the actual farm conditions before them the most impressive lessons in the method of construct-ing the right kind of drains and in the value to be derived from such drains, can be taught. County Agent Brady will be in charge.

NEWS OF THE WEEK.

the several the several governments of Mexico since 1910.—The Austrian cabinet re-

Sunday, June 13.

THE Moscow bolshevist government is said to have been overthrown and that Leon Trotzky has been killed. Persistent reports have been cur-

Live Stock Market Service

SEEDS

Market is easy and inactive with prime red clover quoted here at \$25.50 Hog prices are 25@75c higher than per bushel; October \$24; alsike \$25.50 last week, heavy hogs going at \$15.50 @16, and yorkers at \$16.25@16.40.

FEEDS

Calves are steady at \$17, and the best lambs bring \$16@18.50. The cattle market is strong

DETROIT

Receipts 1,204. Dry-fed are steady; grassers 50c@\$1 lower.
Best heavy steers ...\$13.00@13.75
Best handy wt bu steers 14.00@14.50
Handy light butchers ...\$10.0@10.75
Light butchers ...\$9.00@ 9.50
Best cows ...\$9.00@ 9.50
Best cows ...\$10.00 aloo and heavy weight 1100 lbs up, choice and prime \$16.25@17; do medium and heavy weight 1100 lbs up, choice and prime \$16.25@17; do medium and prime \$16.25@17; do medium and prime \$16.25@17; do common at \$11.60@13.75; light weight 1100 lbs down, good and choice \$15.25@16.60; do common and medium \$11.25@15.25; butcher cows ...\$5.00@ 5.75
Best heavy bulls ...\$5.00@ 8.25
Stock bulls ...\$5.00@ 8.25
Feeders ...\$10.00@10.75
B.000@8.25
Feeders ...\$10.00@10.75
B.000@8.25
Feeders ...\$25; canners and cutters, cows and Stockers ...\$25.25@8; do canner steers at

to 250 lbs medium, good and choice at \$15.10@15.55; light 150 to 200 lbs, common, medium, good and choice at \$15@15.55; light lights 130 to 150 lbs common, medium, good and choice at \$13.50@15.40; heavy packing sows 250 lbs up, smooth \$13.25@14.25; packing sows 200 lbs up rough \$12.65@13.25; pigs 130 lbs down, medium, good and choice \$11.75@14.25.

rent of a counter-revolution.—The Japanese cabinet approves the old alliance with Great Britain.—One hundred the and ninety-three miners are believed proto have been killed by the explosion of yed, a dynamite depot at Anina, the great the Hungarian coal and iron mining center.

Monday, June 14.

BOLSHEVIST forces are badly defeated by the Poles when the former attempt to cross the Dnieper river.—The sixty-sixth congress appropriated approximately five billion dollars in the session ending June 5.

COMING LIVE STOCK SALES.

Holstein—June 30, Chesterfield, Mich., Macomb County Consignment Sale.



The Ottawa Log Saw falls trees or cuts off stu eutter, runs pump jack and other beit machiner, on wheels. Easy to move anywhere. 10 Year 30 Days Trial. Write for Free Book and Cash or E OTTAWA MPG. CO., 1501 Wood St., Otto



DICKEY GLAZED - TILE SILOS

"The Fruit Jar of the Field" Insure Your Corn Crop Against Drouths and Frosts with a Dickey Silo. Send for catalog No. 9

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BARN PAINT \$1.32 GALLON

GET FACTORY PRICES ON ALL PAINTS. We guarantee quality. WE PAY THE FREIGHT.

FRANKLIN COLOR WORKS,





\$13.70 per cwt. 50 lbs. Bales 500 ff. te lb. Insect Proof. 7-8 Pure Manila Hay Rope 7c lb. Quick Shipment, Satisfaction Guaranteed. A. H. FOSTER CO.

Use Swift-HAY Service

AT CHICAGO
You can BUY all types of FEEDING
HAY from and SHIP your surplus to

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Mr. POULTRY FARMER:

We make a specialty of White Hennery Eggs and have created a profitable market for your eggs the year around. We pay the highest premium for your Hennery Whites—We remit same day shipments arrive. Ship Often—Ship by Express

GEO. R. ELDRIDGE CO.

For Best Net Results

Ship to CULOTTA & JULL

Detroit, Mich.

We have a good demand for fancy fresh eggs and will pay you liberal premiums above the market for Express shipments fresh laid shipp eddiments fresh laid shipp eddiship to the fact to us by farmers.

AMERICAN BUTTER & CHEESE COMPANY, Detroit, Mich.

Ship to The Old Reliable House Danie Mc Caff ey's Sons, 623-625 Wabash Bldg., Pittsburg, Pa.

SYSTEM OF FARMING LIGHT SOILS.

(Continued from page 927). turn the yields per acre will be larger. Follow a good rotation. Do not rotate corn, grain and potatoes. Use a legume crop frequently. Legumes will grow successfully on light soils so why not use them? As suggested, apply available manure on the legume crop and use commercial fertilizers on the corn, potato or other cash crop.

That sandy soils can be farmed successfully is an assured fact fully demonstrated by successful farmers everywhere in the light soils regions. The suggestions in the management of light soils given in this and previous articles in the Michigan Farmer are a result of a close and constant study of the subject during the last ten years. Much of the data has been secured from experimental work on three different light soil state experimental farms. Other material has been secured from actual farmers located on these soils. The writer is firmly convinced that if handled properly, that is, limed when sour or acid, legumes grown extensively and properly fertilized, that sandy soils can be farmed as prefitably as heavier types of soil. Remember that these soils respond quickly to good treatment. The slogan, "Feed the Crop and it Will Feed You," applies to all soils, so do not become discouraged if you have to add fertility to light soils.

VETERINARY.

Chronic Lameness.—A neighbor of ours has a fine four-year-old mare that is very lame. She first showed lameness last fall and whatever it is the whole trouble is in fetlock joint. A hard bunch is causing the lameness. Our local Vet. has never met with a similar case. H. S. S., Berrien Springs, Mich.—If the bunch cannot be removed with the knife, apply tincture of iodine once or twice daily.

Worms—Itchy Skin.—I wish you would tell me of a simple remedy that will destroy worms in horses; they rub their tails and manes. M. B., Birch Island, Wis.—Give a teaspoonful of dried powdered sulphate of iron and a half ounce of gentian at a dose in soft feed twice a day. Wash itchy parts with soap and water once, then wet with one part bichloride of mercury and one thousand parts water once or twice a day.

Strong Pork.—At what age does the flock of hour tasts strong? M. E. Dub.

Strong Pork.—At what age does the flesh of boar taste strong? M. E., Dublin, Mich.—After about four or five months, growing more so with age.



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LOW PRICED GARAGES Lowest prices on Ready-Mad Fire-Proof Steel Garages. Sup any place, Send postai for

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CORN HARVESTER

hat beats them all. One horse cuts two rows. Carries o shock. Worked by 1, 2 or 3 men. No danger. No vinc. Free trial. We also make Stump Pullers and its Ditchers. Oatalog free. Agents wanted. I. G. BENNETT & CO., Westerville, Ohio.

WANTED

cents in every locality for a strictly new and useful ticle used in every home. Ladies and gentlemen lessmen making good money wherever ried. One le advertises; a good repeater in same territory, gents protected while active. 200 per month easily ade by energetic agents. No competition. For parculars and proposition address endoctman Mfg. Co., 325 Main St. Leudonville, O.

FOR SALE

less outfit Separator 31-48 full equipment Engine 16 HP. with full equipment. nk holding twelve barrels. This outfit condition. One Portable Saw Mill, 300 ft warn Machinery Sules Gi. 10. Buffel.

The Combination for Engines that Pump Oil

In addition to preventing fuel from wasting past them, piston rings should regulate and control the flow of lubricating oil to prevent it from fouling spark plugs and causing carbon deposits.

In engines where the flow of oil is excessive it has been found necessary to install a McQuay-Norris Supercyl Ring in the top groove of each piston with McQuay-Norris LEANTROOP Piston Rings in all other grooves.

This combination of time-tested Piston Rings increases your engine's power by insuring equalized cylinder compression, saves the waste of gasoline and lubricating oil, and decreases carbon and fouled spark plug troubles.

These are the only piston rings of their kind. They are made in every size and over-size to fit every make and model of gas engine. Repairmen everywhere can furnish any desired sizes promptly. If he hasn't them in stock he can get them within a few hours from his jobber's complete stock.

McOuay-Norris Mfg. Co.

St. Louis, U. S. A.



Write for This Booklet

It explains the construc-tion of both of these McQuay Norris Rings and gives you a clear, non-technical explana-tion of the principles by which motor power is efficiently developed. efficiently develop Address Dept. AE



the genuine

MICHIGAN LIVE STOCK INSURANCE COMPANY

INDEMNIFIES Owners of Live Stock - Horses, Cattle, Sheep and Hogs Against Death by Accident or Disease Bay City, Michigan 308 Davidson Building,

America's

Dog Medicines

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



BINDER TWINE 13%9

Standard Binder Twine, 500 ft. to lb., 13% per lb. Less in carloads. iW rite for Circular. Dept. M-14

Milwaukee, Wis.

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Liberty "Twelves" and Cadillac "Eights" are but a part of our enormous modern equipment. Our block test department alone has over One Hundred motors of all types. Our Airplane Rotary, Hall-Scott, Roberts and Curtis "8." Instruction on these motors is given in connection with our complete auto course. Our equipment includes the latest models as well as models of former years, assuring thoroughness of instruction.

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