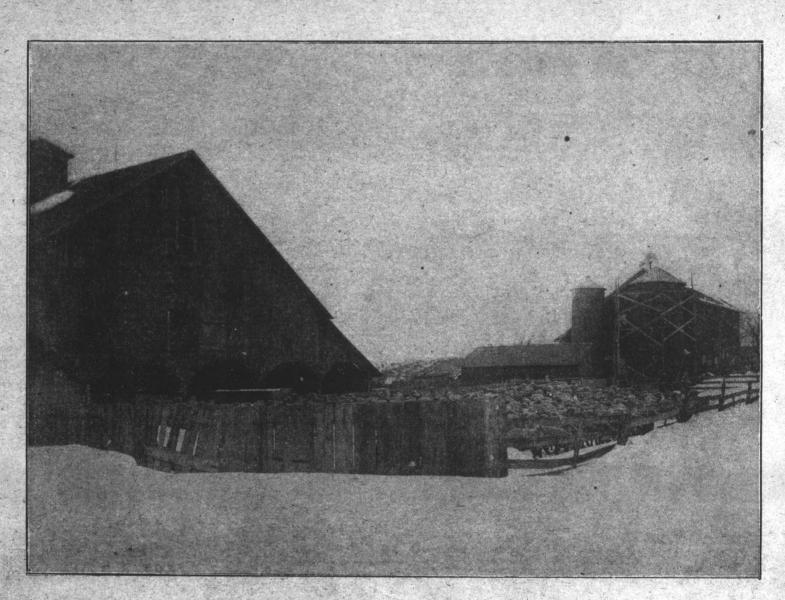


VOL. CLX. No. 2 Whole Number 4235 DETROIT, MICH., SATURDAY, JANUARY 13, 1923

ONE YEAR \$1.00 FIVE YEARS \$3.00



HEN is farming at its best? This is a bold question, and would, no doubt, have been answered by the average

farmer quite differently three years ago than now. Then envious eyes were cast upon the one-crop farms—farms where, at least, forty per cent of the income was derived from a single source. But hard lessons have been learned these past two years in the great out-door school of agriculture.

Farms, like the one inspected by one of our foremost economists, appear now to be leading the way. From this farm of 145 acres were received for sheep, lambs and wool, \$2,087; for swine, \$1,240; for beans, \$855; for apples, \$800, and for potatoes, \$105. The value of the farm was inventoried at \$12,000.

The owner of this remarkable farm fol-

Farming at Its Best

lowed a diversified type of agriculture. He insisted that there were certain definite advantages in his program which could not be had through specialization. First in importance, he declared, was the opportunity for the rotation of crops. There were unusual circumstances, he thought, where one may be justified in devoting himself to specialized lines, but this does not hold true in strictly farming sections. Many crops make possible a wise policy of soil feeding which keeps it strong for crop production.

"Then we do not take the risk," he continued, "which the specialist does. He, truly, may make a 'killing' occasionally, but more frequently must be content with heavy losses. The farmer with a diversity

of crops, on the other hand, invariably enjoys success in, at least, some department of his farming every year, regardless of the temperament of the weather man."

This farmer further contended that both horse and man labor could be better distributed throughout the year. He and his men are not crowded to exhaustion one month and then drawing gravel or helping the section boss the following month. Live stock and many crops, properly adjusted to each other, call for all the time of the men and the teams and, yet, occasion the seeking of very little extra hiring.

Finally, a glance at the income column of the ledger kept by this man told plainly that returns were had at different seasons of the year. He sold his lambs in January, wool in August and individual sheep for breeding purposes, (Continued on page 41).

Chicago Daily Tribune the world's greatest newspaper

Announces

A BIG REDUCTION IN SUBSCRIPTION RATES

For the Benefit of the Farmer

HE CHICAGO TRIBUNE, realizing that its phenomenal success is due in a large measure to the fact that for seventy-five years it has numbered among its readers a large proportion of the residents of farms and small cities, announces for their benefit a big reduction in subscription rates effective January 15th, 1923.

The reduction ranges from 1/3 to 1/2 below former rates

In 1917, as a war measure, Congress passed a bill providing for four annual raises in Postal Rates for newspaper subscriptions. As The Tribune had, for many years before, sold its paper to out-of-town readers at less than cost, it felt compelled to add a portion of these postage increases to its subscription rates.

For the past three years The Chicago Tribune has been leading the fight to obtain a reduction in second-class postage rates so that it could reduce to pre-war prices its subscription rates to residents of farms and small cities.

Although every one of the other ten taxes established by the war revenue act of 1917 has been reduced, Congress has not seen fit as yet to reduce the tax on second-class postage.

At the present Postal Rates it costs The Tribune from \$3.20 to \$6.79 a year for Postage alone to send the paper to each subscriber in the States of Illinois, Indiana, Iowa, Michigan and Wisconsin. In many instances this is more than The Tribune's entire subscription price-without considering the cost of the product.

Many of our farmer friends have stated that it required from 10 to 12 bushels of corn to pay for a year's subscription to The Chicago Daily Tribune. The Tribune is anxious to remedy that fact.

TO TAKE ADVANTAGE OF THIS OFFER TEAR OUT COUPON and

If you prefer to do so, you may turn subscription coupon below over to your postmaster, publisher, or newsdealer who will forward it to us.

Therefore, without waiting further for Congress to act, The Tribune announces a reduction in subscription rates ranging from 1/2 to 1/2. This cut in rates will cost The Tribune approximately \$200,000.00 each year, but The Tribune will pay the bill in the interest of its many country readers.

New subscriptions to The Chicago Daily Tribune, starting on and after January 15th, 1923, will be accepted at the following rates:

THE CHICAGO DAILY TRIBUNE

[By Mail, Six Days a Week]

These Rates Apply Only to Subscriptions in States of Illinois, Indiana, Iowa, Michigan and Wisconsin. [Cities, Towns and Rural Routes included.]

	Period	Old Rate	New Rate
1		\$1.00	\$.50
		2.50	
		3.75	
		7.50	

The Chicago Daily Tribune today enjoys the largest circulation in its history and the largest morning circulation in America - averaging over 530,000 copies daily. It will readily be seen, therefore, that the reduction is not made primarily to secure more circulation.

If you wish to receive The Chicago Daily Tribune -with its many wonderful features-regularly, take advantage of these new, low rates now. Mail subscription coupon below. Note that \$2.50 will now bring you The Chicago Daily Tribune by mail for six months, or \$5.00 for a whole year.

For the benefit of its country readers The Tribune will continue its fight for fairer postage rates.

SUBSCRIPTION COUPON

The Tribune Company Dept. 18 Chicago, Illinois,

Date

I want to take advantage of your reduced subscription rates. Enclosed find \$..... for which send The Chicago Daily

Tribune [by Mail, Six Days a Week] as follows:

☐ 1 MONTH [50c]

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DEVOTED TO MICHIGAN VOLUME CLX.



SERVICE

A Practical Journal for the Rural Family MICHIGAN SECTION THE CAPPER FARM

NUMBER TWO

The year 1919 was a poor fruit sea-

son and the production for New York

QUALITY

RELIABILITY

The Cherry Industry of Michigan

This State Now Leads and Has Possibilities of Much Greater Development

By Verne H. Church, Agricultural Statistican

HE cherry industry in the region of the Great Lakes, as you well know, has had a phenomenal growth during the last two decades. The winter of 1898-1899 was unusually this list are Allegan, Antrim, Benzie, trees in the state to be 1,270,000, or cold, the Great Lakes froze over, autowidespread damage to the peach or-Ohio, and western Michigan. Not only but the trees remaining alive were so severely shocked that many died later or having succumbed to disease. This which had proven to be a rather uncertain and often unprofitable crop. It was only natural that they should seek a more hardy fruit and one that had a better reputation for regularity in bearing.

The record of existing commercial cherry orchards was favorable and that fruit offered possibilities for profitable development. The setting of trees increased slowly at first and then more rapidly. The spreading of the dread San Jose scale through the apple orchards, and further injury to the remaining peach orchards by later freezes gave additional impetus to the cher-

From an examination of the United States census figures of 1920, we find that Michigan leads in the number of bearing trees of this fruit, although the total number is only slightly greater than in New York. In 1910, the number of bearing trees as shown in the federal census was 760,183 in Michigan; 673,989 in New York; 1,144,271 in Ohio, and 290,495 in Wisconsin. At that time each of these states, except Ohio, also had about one-half as many more trees that had not yet reached the bearing age. By 1920, the number of bearing trees in Michigan had increased forty-two per cent, making a total of 1,077,000 in round numbers; New York had increased fifty-two per cent, making a total of 1,027,000; Ohio had decreased twenty-six per cent, leaving a total of 805,838, and Wisconsin had increased fifty-one per cent, making a total of 437,480. The number of young trees below the bearing age in 1920 was considerably less than in 1910, but Michigan showed the greatest number, nearly equaling those of New York and Wisconsin combined, and befourth as many, Ohio a little less than in a measure, been relieved. one-fourth as many, and Wisconsin onefifth as many as in bearing. These figures indicate that the setting of trees has lessened considerably in recent years but that the rate of decrease is proportionately less in Michigan than

In Michigan, the commercial area

to become discouraged with peaches, the present number of bearing cherry and Leelanau to 94,958 bearing trees.

Berrien, Charlevoix, Grand Traverse, slightly more than 200,000 increase in matically eliminating the tempering Kent, Leelanau, Manistee, Mason, Oce- the last three years. As it is believed influence of their waters, and caused ana and Van Buren. According to the that no such change has taken place 1920 census Grand Traverse county led in New York, it is quite certain that yields were better in New York and chards of western New York, northern with 140,521 bearing trees; Benzie was we have considerably increased our second with 103,453; Oceana was third lead over that state during that time: sin, the average per tree being .43 were many orchards killed outright, with 97,453, and Leelanau was fourth Every commercial county included in bushel for New York; .18 for Ohio; with 83,885 trees. The smallest num- the Michigan list shows a greater number of trees for any county of the Mich- ber than in 1920 except Antrim. Grand gan. These two years do not afford either as a direct result of the freeze igan group was 14,422 in Charlevoix Traverse has increased to 160,165, Bencounty. A survey made by the super- zie with the report for one township periority of one state over another severe blow caused many fruit growers visors during the past summer shows missing, to 108,095; Oceana to 122,480,

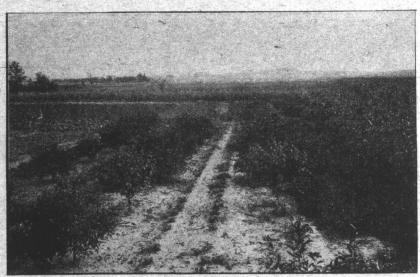
was 166,877 bushels; Wisconsin, 160,-592 bushels; Ohio, 338,644 bushels, and Michigan, 360,952 bushels. The average yield per trees was .16 bushel in New York; .30 in Ohio; .37 in Wisconsin, and .34 in Michigan. In 1909, the Michigan but less in Ohio and Wiscon-.28 for Wisconsin, and .45 for Michisufficient evidence to indicate any suwith respect to yields.

For the region as a whole, it is probable that the Montmorency is the leading variety, although in many counties the honors are about equally divided with the Early Richmond. Only the sour varieties are grown in the Wisconsin commercial district, and the number of trees of Early Richmond and Montmorency is about equal. The sweet varieties are grown only to a small extent, and very few trees are being set. As the old orchards are gradually dying, the number of sweet cherry trees is steadily diminishing.

There are places in Michigan that seem to be more favorable to the growing of tender fruits than are found in other sections of the lake region. The prevailing winds are from the west, and the greatest protection is afforded in localities that lie along the eastern edge of large bodies of water. Such a region is western Michigan where, for nearly 300 miles north and south, there is an expanse of open water to the westward varying from fifty to nearly one hundred miles in width. The only times that Michigan has suffered severe losses of trees has been the few years that Lake Michigan froze entirely across as in 1899, 1913 and 1918. study of business developments re- per cent; sugar, forty-five per cent, and The value of water influences is emphasized by the fact that nineteen of al receipts were in general higher than the twenty-four commercial cherry counties mentioned in this paper bor-

Michigan offers by far the best and safest territory for future expansion. The state of New York has many citare no serious obstacles in sight which reduction in immigration improved the ies, including the metropolis of the world, which will naturally consume a of labor at the end of 1921 to a point large proportion of its production in the form of fresh fruits. Ohio's restricted area will only produce enough Transportation conditions changed for home consumption in its numerous extent have, no doubt, kept the price from a huge surplus of idle freight cars large industrial centers. Wisconsin's ing one-third as many as the bearing of agricultural products below the level to a considerable shortage, while car area cannot be expanded to any con-

As a natural consequence of this sit-Prices to the farmer increased about uation, the canning industry has made extensive development in our state and greater than in 1921. Textile mills were and retail food prices declined five per should not hold the center of the stage in this direction for the future. During the last twenty years, the period increased its output from sixty to sev- rows the margin between wholesaler in which our cherry production has chiefly been developed, the industrial population of our state has doubled, the great cities just beyond our borders have grown rapidly, and the imand preserving our fruits have further sharpened our appetites for them.



Here is Evidence of Michigan's Adaptability to a Wide Variety of Crops.

Gains in Business Measured

HE United States Department of five per cent; brick, fifty per cent; celines the prospect for 1923 as follows:

that most industries can view the progress of the past year in spite of the bituminous coal and forty-seven per many difficulties which have been ex- cent in anthracite. perienced. At the close of 1922 there should hinder further advances during labor situation from the large surplus the early part of the new year. The unsettled conditions in foreign countries, particularly in Europe, are still depressing our trade, and, to a certain acreage in the state at that time. New of other commodities. Within the past loadings were eleven per cent greater siderable extent. York had only a little more than one- two months this latter condition has, than in 1921.

ifies in 1922 was about fifty per cent wholesale prices advanced ten per cent there is no reason why Michigan about twenty per cent more active than cent. This condition gives the farmer in 1921, the iron and steel industry a greater purchasing power and narenty per cent over 1921; non-ferous and retailer. metals from fifty to ninety-five per extends over portions of a dozen west- cent; petroleum, fifteen per cent; coke, ably heavier than in 1921. Sales of ern counties. The number of trees in forty per cent; paper, twenty to thirty mail order houses increased six per these counties is, as in New York, per cent; rubber, forty per cent; auto- cent and chain stores show a gain of proved methods in handling, preparing about seventy per cent of the total for mobiles, fifty per cent; building con- thirteen per cent. Debits and bank the state. The counties included in struction, fifty per cent; lumber thirty- clearings show the same relation."

Commerce which makes a constant ment, fifteen per cent; leather, twenty views the progress in 1922 and out- meats about five per cent. Agricultur-It is with a feeling of satisfaction in 1921. The only declines of outstanding importance were seven per cent in der on the Great Lakes.

The increase in production and the where shortages occur, while unemployment has almost been eliminated.

Production of manufactured commod- seventeen per cent during the year,

The volume of trade was consider-



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DETROIT, JANUARY 13, 1923

CURRENT COMMENT

THE MICHIGAN FARMER SAYS:

This is a good time to cultivate the mental garden, for there are weeds among thoughts as well as among crops.

The use of system enables one to do things with the least wear and tear. Be a "system" man even to the extent of water and light systems.

Fixing up one side of our economic house does not necessarily mean that any injustice is being done the side that is already in first-class order.

Stop the Isle Royale Scheme

N the last issue we commented on the desirability of Michigan Farmer readers keeping close tab on the work of the legis-

lature and in close touch with their representatives in that body during the session just opened, to the end that state taxes may be kept within reasonable bounds. We take this opportunity to point to a specific example of this immediate need.

For some months numerous press items have directed public attention to Isle Royale. These were largely of a historical trend, directing attention to ancient mine workings on the island. For some weeks propaganda has been freely advanced for the purchase of this same island by the state for a state park. The idea has received liberal support from strong newspapers, and was endorsed by some of the most prominent members of the legislature before that body assembled for its initial session. Finally Governor Groesbeck recommended it in his message, thus making this proposition one for serious and immediate consideration.

Our readers will be interested in knowing more about Isle Royale and the influences back of this scheme to sell it to the state, at a price said to be around four million dollars, for use as a state park. The first item of knowledge can be simply acquired. The children's geography will give its location. The second item of information is one which the taxpavers of the state have every right to ask the backers of this scheme to elucidate.

Briefly, Isle Royale is a large island in Lake Superior, something over forty miles long and of some 250 square miles in area. It lies within a few miles of the Canadian shore, some fifty miles north from Keweenaw Point, the

those of Keweenaw Point which are said to contain valuable copper deposits. It has been suggested in a recently published statement that the owners of the portion of the island containing these deposits may be behind the scheme for the purchase of the island for a state park, which might enable them to hold their mineral rights in reserve for future development without the payment of a considerable item of state and county taxes which are, or should be, levied on these holdings.

While the truth or falsity of this published suggestion should be established in the interest of the public welfare, it is not essential to a determination on the part of the people of the state as to whether they want to be taxed millions of dollars for the purchase of this distant and inaccessible island for a state park. We believe they will be able to decide this question on its merits and without prejudice, regardless of any sinister influences which may or may not be backing the plan. To this end let us review the plan strictly on its merits.

Whether this island is well adapted for its proposed use seems to be a subject of dispute among those who have explored it, with opinion widely divided. But as to its accessibilty to the people of the state there can be but one opinion. It is farther from the state's center of population than the famous Thousand Islands of the St. Lawrence, and about equi-distant with playground. Few Michigan people would be able to visit it even in summer without the aid of a private yacht, while in winter it would be inaccessible to all.

of this scheme are to be taken ser- any man." iously, the natural beauty of this island has been preserved to date. No-Probably nobody will in the near fustate account until at least a reasontime, opportunity and inclination to go matter.

\boldsymbol{A} Legislative Service

on individual legislators will, perhaps, every time, eh? in the long run, help more to relieve the citizens, than any other single act.

the capitol building.

any reader desire to learn the status lion dollars. of any bill in which he is interested,

It is traversed by ridges paralleling will be our pleasure to give such information.

not only keeping posted on what the legislators are doing, but it should in the enactment of favorable laws and the defeat of undesirable ones through proper petitioning and correspondence with a member, or members, of our state law-making body.

Legislature Opens By Our Special Correspondent

T was Wednesday, the third day of the New Year, when the wise men were gathered together at the Legislative Halls. They came from the east and from the west and from the strong in the house of representatives and thirty-two in the senate.

Like all well managed concerns the first thing on the docket was the sethave a new leader and numerous other appurtenances whatsoever, and the senate suitable drinking water and other items of major or minor import-

The Speaker's Address.

Hon. George W. Welsh, the newly elected speaker of the house, is a brilliant young man from Kent county. He believes thoroughly in team work. He had his teams, half a hundred of them, already selected when he took the chair. He calls them committees and has instructed them to get into the Coney Island, New York's noted jazz harness and pull all they can before saddling their load onto the committee of the whole. He doesn't want any lagging so is not putting any top loads on the leaders to worry them and distract their attention. He puts on the Conservation of natural beauty for finishing touches by urging somewhat the benefit of future generations is an thusly: "To thine own self be true admirable aim. But if the advocates and thou canst not then be false to

The President's Address.

Up in the senate chamber the presbody has yet stolen this beauty spot. ident and lieutenant-governor hit a few bulls'-eyes. . He said (only he said it in ture. The people of the state can well nice language) that there were so afford to delay the purchase of this many places to spend the people's island by their public servants on money that we would have to watch the corners closely if the taxes be not able percentage of them have had increased; that every dollar of increased land taxes meant another doland look it over, to see whether they lar's worth of blues to the farmer; that want it or not. We would suggest that all kinds of property must pay its our readers advise their represent- share of taxes; that economy should atives at Lansing of their views on the be the watchword, but that our governmental agencies which have been built up for the protection of the peo-N EVER in the his- ple must be kept in working condition. tory of the state He said that we should not forget to have we been more say "thank you" as well as "d-n you" interested in govern- to our public servants; that the presimental activities at dential primary law should be with grace. Something must be done. ness, the railroads maintain their own upon our state legislative body and up-needed here. Guess he said something is a robber in disguise.

The Governor's Message.

To this end the Michigan Farmer court, the senators, and the people, ler, one of the sweetest girls in town, desires to make it easy for its readers while the standing-room lasted came to go off and marry him to keep informed on the important leg- into the house to hear the governor's day they found Susie in a county hosislative work that is being done, and message. He spoke deliberately and especially as regards bills relating to distinctly and told how the state treas- like a wilted flower. agriculture and rural life. Our repre- ury had been dug out of the mire of sentative will be on the job in Lansing debt, and how the establishment of a Lots a times we give our hand when throughout the present session, and, complete system of accounting had we would like to give our fist. through him, readers will be given a made an accurate record of the state's available. He then submitted Michi-face. Furthermore, this journal hopes to gan's first current balance sheet, showrender a more personal service. Should ing a current surplus of over ten mil- for all of us to try to find out what's

we shall be pleased to inform him, mount fiscal issues confronting us and to the devil and don't know it. northernmost point of the state's main upon request made of the Editorial calling for careful consideration. First,

land. Geographically, however, it is a Department. Then again, if one wish- the retirement of the thirty million part of Keweenaw county and is an es to know how a certain legislator dollar bond issue voted as a soldiers' integral part of the state of Michigan. voted upon any particular measure, it bonus. Secondly, the completion of our road program as expeditiously as possible. Thirdly, the urgent need of This service should aid citizens in additional buildings at many of our state institutions.

He advocated a substantial decrease also enable us as citizens to assist in the tax levy on real estate, a specific annual tax on government securities, and a small tax on intangibles. He recommended civil service rules and the eight-hour day for state employes, a re-drafting of the Corrupt Practices Act, drastic action against the use of firearms, the placing of private banks under state supervision, more extensive control over fire insurance rates, amendments to the Blue Sky Law to keep pace with existing conditions, a ferry service across the Straits of Mackinac, the acquirement of Isle Royale in Lake Superior to be north and from the south, one hundred converted into a state park, a state hospital for crippled children, a new state prison as soon as funds can be obtained, the completion of the woman's training school at Okemos, and ting of the stage. The house had to the expunging of criminal features and sentences from our corrective institutions at Lansing and Adrian.

False Faces

THE other day they got me to go to a maskraid, what is a event where folks want to look like what they don't want to any other time. For inst., I went lookin' like what you call a lawyer, which is somebody what helps us get into trouble. I looked so much like old Dan Webster that one couple wanted me to sign their Declarashun of Independence, what lawyers call divorce. I told them I believed in "United we stand, divided we fall." And anyhow their's bein' a fight amongst themselves made it a civil

> war which me. bein' Mr. Webster, didn't know nothin' about.



At these maskraids you dance with folks what you wouldn't dance with other times. For inst., I danced with a

beautiful young lady what held me tight and wiggled her shoulders, which made Dan Webster feel pretty uncomfortable.

Now I like to shake a wicked foot, but when it comes to shakin' other parts o' the human anatomy I think it's more healthy to take the exercises alone. Anyhow, when they took the false faces off, I found this nice young lady was the young fellow what sold me my Oughto, so what you call my embarrassment was relieved.

But, you know, maskraids ain't the only place where folks wear false fac-Lansing, than we are strengthened or repealed; that the es. There's some folks what put them at this very moment. Agriculture in state wanted something to say about on and off like their clothes. For inst., particular, has been burdened with tax railroad rates; that while the trucks there's Penny Pulford what is the loads which can no longer be borne and the railroads compete for busi-, most accommodatin' skinflint there is. He kin rob you and make you feel Light is the greatest energizer, and right-of-way while the people maintain good while he is doin' it. But after renovator. To keep the light turned that for the trucks, some attention the event is over, you really know he

> The fellow what worked in Jones' gents' furnishin' store wore such a All the state officers, the supreme nice false face that he got Susie Milpital and brought her home a lookin'

> > We all wear false faces sometimes.

Any kind of pretenshun, or actin' regular news service on activities at business transactions immediately like what you ain't, is wearin' a false

You know, I think it is a good thing behind the faces we see, 'cause every The governor named three para- day we are sayin', "Glad to meet you"

HY SYCKLE.

Tax Suggestions of Realtors Reviewed

Recommendations Made by the State Real Estate Association are Treated by L. A. Chase

sentation to the special state commis- on property and making assessments. sion on inquiry into taxation, which will report to the state legislature.

forms of supplemental taxes have not bulk of personal property, particularly a means of mathematical determina- that all state appropriations be pre intangible property, pays little to the cost of government.

The association in its recommendations calls for economy and even retrenchment in governmental expenditures, state and local, and urges that the legislature refrain from extending the present functions of government, such as will increase governmental out-

The association advocates the adoption of the county as a unit for assessing property in place of the township and city, securing thereby greater uniformity and equity in assessments. This, it believes, would give greater dignity and importance to the office of assessor and remove assessors from the immediate influence of those assessed. The title of the county asses-

manuscript statement on taxation of assessments." The county director mensions. in Michigan prepared by the Michi- of assessments would appoint neces-

sion to the assessor of a sworn state. personal, and intangible personal prop-Pointing out that heavy taxation of ment of the amount of both tangible erty separately. Tax rates should be real estate discourages home and farm and intangible personal property ownownership and promotes tenancy both ed and subject to taxation under the in town and country, the association general property tax, the tax rates gives its opinion that the present sys- thereon to be reduced. To provide the should be entered on a single tax statetem of taxing real estate has broken uniform valuation of real estate, the ment with permission to pay taxes down, that real estate is bearing more association recommends the compulthan its fair proportion of the cost of sory use by assessors of land value government, and that attempts to les- maps which show the foot frontage or taxpayer prior to the date of collection sen the tax on real estate by certain per acre valuation placed upon land for in order that each taxpayer may know assessment purposes. They would inbeen entirely successful. Methods of dicate to the assessor and others the due from him. assessment permit glaring discrepan-rates applying to all properties of a As a feature of the new state budget cies, says the association, and the great similar character. They would present system, the association recommends

The basic unit method of determingan Real Estate Association for pre- sary assistants for placing valuations ing valuation of buildings is recommended. The tax roll and receipt entered for each class of property and for each governmental division.

That all taxes payable in Michigan semi-annually, is recommended. Tax statements should be mailed to each without special inquiry what taxes are

HAVE been permitted to read a sor would then be, "the county director tion of values of lots of irregular di-sented to the legislature in a single bill. Greater use of the labor of the inmates of state institutions in their own maintenance is advised, where this is practicable. Land, the associa-The association calls for the submis- should enter land, buildings, tangible tion thinks, should pay a higher tax rate than buildings, and buildings a higher rate than live stock, machinery, implements, bank credits, etc. Maximum rates for each class of property ranging well below the general rate now in force are suggested.

The association winds up its report by suggesting additional sources of revenue: The \$10,000 maximum for the new state corporation tax should be removed or increased. The minimum should also be reduced. There should be a gasoline tax of one cent per gallon. Truck and bus lines should be taxed on a basis of gross earnings, carrying capacity or value of property used. Inheritance tax rates as affecting strangers and collateral relatives might be made progressive. Finally, all taxes should be collected by one collector in the county.

In preparing its report, the Michigan Real Estate Association first made inquiry regarding the taxation situation in other states and municipalities; and while it found unsatisfactory conditions everywhere, it also found widespread approval of the proposal to substitute one county assessor for township assessors, and also the classification of property with special rates adapted to each class. The Michigan Real Estate Association is composed of land owners and local real estate organizations in both peninsulas of the



These Little Black Fellows Are Worth More than Cows. A Good Silver Black Fox Skin Brings \$300 and Over.

Checking Over the Year's Business

How We Do the Job and What We Found

By P. P. Pope

N every farm there is, or should be, a set time for beginning or ending, the farm year. This time is set apart for making the annual farm inventory, and for holding a sort of "post mortem" of the season's receipts and expenditures.

first of April, or the first of March. We choose the first of January. There is more about the farm to be placed in the inventory at that time than at the later date, but we also find more time to devote to the job, and more time for a thorough examination of the records, and for a careful study of the results.

So interspersed with the big holiday dinners, the gorging of sweets and nuts, the games of "pit" or "put and take," the reading of the new Xmas books, and playing the children's games-interspersed with all these are many hours devoted to close inspection of the year's business. Here are some of the discoveries:

The inventory which usually comes first and which tells the rounded out story of profit, or loss, on the year's work remains about the same. The resources showing lower on horses, higher on cattle and hogs, lower on farming tools, higher on farm produce, and lower on miscellaneous items, stocks, bonds and notes, bills receivable and cash on hand, the total of all resources foot within \$100 of last year.

This part of the inventory is not so bad. We like to see the resources stack up well, but we also like to see the liabilities lowered. In spite of the fact that we have economized as never before, and practiced the last word in efficiency, and by so doing have suc-

ceeded in paying over \$1,600 on old obligations, nevertheless, the accru- count of our receipts by depositing all ments of interest, taxes, bills payable, etc., have been sufficient to bring the duplicate deposit slip and writing

close to last year's high mark. isfaction from the fact that we do not headings, we glean the following: The have to register another heavy loss as largest single item of receipts comes we have been accustomed to doing the from the sale of farm produce. This is two years past, but it sort of takes the made up almost entirely of sales of joy out of life to work a forty thousand wheat, beans and sugar beets. The investment for all there is in it, and yield of wheat was low, and the price

We told last year how we kept acfunds received in the bank, taking a Some people start the farm year the final summary of the liabilities very thereon the source of the funds deposited. Going over these slips and put-Perhaps we should gather some sat- ting down the amounts under subcome out just where we started from. very low, but by selling the bulk of the

crop for seed, it came very close to paying out. Had we guessed a little better on the trend of bean prices, and held until now, instead of hurrying them to market before the price dropped and taken \$4.50 per cwt., we would have realized a real profit on the crop. There is a prospect yet of a bonus on the beets that will leave a little profit.

A close second is the item that represents the sales of hogs. Here is the one place on the farm that we can see a real, sure enough, worth while profit. It has been one of the best years for the hog feeder that we have experienced in some time. Following this item comes receipts from sources other than from sales which we term independent receipts, there comes in order receipts for sales of cattle, horses and miscellaneous goods.

The expenditures which are taken from the record on the check stubs, an also listed under sub-headings, show that the expenditures are for the following items: Interest and taxes, old accounts, labor, feeds and fertilizers, seeds and

Such is the 1922 record of achievement, and shows a net profit consisting wholly of experience. It indicates clearly that agricultural conditions must improve, which I am inclined to believe is already on the road.

The government has given out figures showing that the consumption of milk increased fourteen per cent during 1921. That is the amount used per capita was forty-nine gallons instead of forty-three.



The Radio is Becoming a Big Factor in Distribution of News. Isolated People Can Now Pick the News Right Out of the Air.

LATE AGRICULTURAL NEWS'

A NUMBER of successful and progressive farmers of Maple Grove township, Saginaw county, have decidlive stock and poultry to Detroit by motor truck. Their first experiment will be in the shipment of a load of dressed hogs, veal and poultry on January 4, direct to the Detroit Produce Exchange. If the plan is found satisfactory farmers of the vicinity of Layto supervise shipments on a large they will be made. scale.-Mills.

ALFALFA BIG FACTOR IN NORTH-ERN MICHIGAN DEVELOPMENT.

THE wonder crop of the world is to Michigan areas, where thousands of acres of light soil extend from township to township and county to county.

No better proof of the statement can be found than the splendid work in this connection on the Ruckles farm near White Cloud. A few years ago the present owners bought a large tract of cut-over land and set out to show the public that it was worth investing good money in.

ST. LOUIS FACTORY MAKES 4,000 TONS OF SUGAR.

THE St. Louis sugar plant of the Holland-St. Louis Sugar Company, has just completed the campaign for 1922, having sliced about 35,000 tons of beets and made more than 4,000 tons of sugar, aside from 1,200 tons of dried pulp. The total amount paid to farmers for beets this year was about \$250,-000. This, with more than \$40,000 paid for labor in factory, shows that the plant is one of the important factors in the industrial progress of this vicinity. About 13,000 pounds of beet seed were produced this year, which will be sold to the farmers contracting for next year's crop.-Mills.

HEMLOCK SHIPPERS ELATED BY REPORTS.

MORE than sixty farmers attended the annual meeting of the Hemlock Shipping Association on January 3 at the town hall, when it was decided to resume its monthly meetings durof the association, reported a very successful year for the organization in farmers' cooperative associations during the past year.

The general agricultural situation was discussed and the plans for a shipby-truck project was explained. William Watson, president of the association, presided at the meeting and spoke briefly on the purposes of the newly organized Saginaw branch of the Michigan Milk Producers' Association. 'The election of officers of the Hemlock Association will take place at a meeting to be held soon.-Mills.

CAUSE OF SECRETARY FALL'S RESIGNATION.

RAILING in his efforts to secure the removal of the bureau of forestry from the department of agriculture to the interior department, Secretary of the Interior, Albert B. Fall, has resigned from the President's cabinet, and his resignation has been accepted to take effect March 4. This is regarded as a

FARMERS WILL SHIP BY TRUCK. ment, the American Farm Bureau Fed- by the department of agriculture. The to activities elsewhere. H. B. Fullereration says that many farmers are in-federation representative says the ton, of Long Island, New York, is comquiring concerning the progress of Walter G. Brown's plan for reorganization of the departments of the government. ed to inaugurate direct shipment of They are wondering what the said Brown is doing to earn his salary. More than a year ago it was announced that Brown proposed to transfer the bureau of markets to the commerce department and the bureau of public roads to the new department of public ton's Corners will form an association been made, and it is not likely that

FARMERS' DEPENDENCE ON EUROPE.

N a letter addressed to the department of agriculture, J. R. Howard, play an important part in solving retiring president of the American proper information for production and land settlement problems in northern Farm Bureau Federation, says: "The welfare of the American farmer is much more closely related to the European situation than is usually considered. Europe purchases approximately ninety per cent of our agricultural surcustomer. The purposes of the government as recently expressed in the public press to take an active hand in the settling of the European situation agriculture. What the farmer needs above all other things is price. There advances will be held and further gains in many commodities registered."

FAVORS BUREAU OF MARKETS.

cultural economics as it is now known, has done along this line as compared

tion of farm products through to the point where they are manufactured or sold to the consumer. And as cooperative marketing and manufacturing develop their interest will be continued through these processes. Farmers have no idea of divorcing the departworks. None of these changes have ment of agriculture's interest in their products as soon as they leave the farm for the whole history of the development of the bureau of markets has shown the necessity for following the products through to the manufacturing stage, or in the case of fruits and vegetables to the consumer in order that the farmers may have the marketing of their goods.

POTATO PRODUCERS MEET.

E VERY potato grower who can, should attend the annual meeting plus. She is therefore our principal of the Michigan Potato Producers' Association. This meeting is to be held at the Michigan Agricultural College, East Lansing, on February 1-2. The date comes during Farmers' Week at means tremendous things to American the college. A most interesting program has been prepared.

On Thursday, February 1, at 9:00 a. is every reason to believe the recent m., the session will be opened by Prof. J. F. Cox, of the Michigan Agricultural College, who will explain what the college is doing for Michigan potato producers. To give the listeners an idea of Michigan's place in the production THE Farm Bureau Federation has of certified seed potatoes, Thomas been on record as favoring reten- Buell, of Elmira, president of the State tion of the bureau of markets, or agri- Association, will show what our state

farmers do not intend to see marketing. ing to explain how healthy spuds are work divorced from farm production. being secured on Long Island. Experi-"They are interested in the distribu- mental work with potatoes in Michigan is to be presented by our potato specialist, J. W. Weston, of the M. A. C. The last discussion at this session will treat of potato diseases in this state by J. E. Kotila, of the botanical department of the college.

The following day at the same hour Professor Stuart, of the United States Department of Agriculture, explains how the quality of certified seed potatoes may be improved. Following this will be the report of H. C. Moore, secretary-treasurer of the Michigan Association on the work of the past year. The business meeting and election of officers will follow.

In connection with the business session there will be held a potato show. This show promises to attract wide attention. Prize exhibits at the recent Grand Rapids show will be exhibited on this occasion. All who have good potatoes are encouraged to participate in this competitive exhibit. Boys' and girls' club members have special class. For detailed information write H. C. Moore, secretary-treasurer, East Lansing, Michigan.

HIGH HONORS TO A BARRED ROCK.

T the second Canadian egg-laying A contest held in New Brunswick, a Barred Rock hen carried away the blue ribbon with a credit of 247 eggs. Two hundred birds were in the contest, covering a period of fifty-two weeks and making an average of 139.43 eggs, as compared with an average of 152.13 for the previous year. The best pen in the contest was of Barred Rocks, with a credit of 2,143 eggs for the fifty-two weeks, and was the only pen which showed an average of over 200 eggs per hen. Six of the birds in this pen laid over 200 eggs, and the lowest one had a record of 171. The 200 hens consumed 11,672 pounds of mixed grains, 7,790 pounds of mash, 8,930 pounds of skim-milk, 585 pounds of grit, 682 pounds of shell, a small quantity of charcoal, and a liberal amount of green feed during the year. The total cost of this feed was \$515.38 and the value of the eggs sold was \$902.27, leaving a balance of \$386.89 to cover the cost of labor and housing.

Wednesday, January 3.

HE Turkish Nationalist troops are concentrated for an attack on Constantinople and other strategic points. -Verne Perry, a prisoner at Charlestown, W. Va., dug his way out of prising the winter. Frank Short, secretary on with two spoons and a knife.-According to figures based on returns from large hotels and cafes in Chicago, lice at Des Moines, Iowa, is taking pic-1922, and reviewed the progress of that city spent six million dollars celebrating New Years.

Thursday, January 4.

EATHS in Cleveland from poisoned liquor showed a marked increase in 1922 over the previous year. -Two hundred camps for girl scouts are to be opened in various parts of the country next winter.-The world's largest perfect bell is located at Mandalay, Burma. It is eighteen feet in diameter and thirty-one feet high.

Friday, January 5.

ask a modification of the immigration Detroiters. law so that more aliens can be let in.-Faneul Hall, the "Cradle of American Liberty" in Boston, will be restored to its original architectural condition.

Saturday, January 6.

In view of Secretary Fall's retire- also as president of the board of di- Washington.

rcetors.-The production of the Ford automobile plants in 1922 was 1,352,478 cars and trucks.

Sunday, January 7.

HE United States will pay Norway \$12,000,000, according to the Hague award, for commanding Norwegian ships during the war.—The chief of potures of all persons arrested for drunkenness. He believes a "see yourself when you are drunk" photo will help the temperance cause.—John A. Doelle, commissioner of the State Department of Agriculture, tendered his resignation to Governor Groesbeck to take effect January 31.

Monday, January 8.

HE total number of auto and truck licenses issued by the state of Michigan in 1922 was 578,580.-Bea prayer book, a funeral service at sea WO Chicago families celebrated for its captain was conducted by wire-New Years by the addition of trip- less.—There are six hundred more pris- free. Judging will be by competent lets to the already large family.—Na- oners in Jackson this year than last. tional association of manufacturers Sixty-six per cent of the prisoners are

Tuesday, January 9.

THE National House of Representatives passes the agricultural appropriation bill carrying \$68,981,553 for GREAT BRITAIN warns France not Florida caused the death of six.—Mrs. tional Show just concluded at Chicago. to seize the Rhine district because J. C. Ketcham, wife of John C. Ketch- They won places on all entries sent victory for Secretary of Agriculture of the non-payment of the German am, representative of the fourth Mich- and brought home more honors than Wallace, who has insisted that the for- debt.-J. Ogden Armour resigns as igan congressional district, and former any other county in Michigan. This estry bureau remain in his department. president of Armour & Company, and master of the state grange, dies at will assure you the best show in the

WILL HOLD GRAIN SHOW.

THE Saginaw County Grain Growers' Association has completed arrangements for the First Annual Grain Show to be held in Saginaw, on January 18-19-20.

Secretary Douglas Bow announces there will be complete classes for corn, wheat, oats, rye, barley, beans, and other small grains, seeds and potatoes. There will be about sixty classes for which there will be first, second and third premiums in each class.

All grain growers in Saginaw and cause the steamer Hateras was without adjoining counties are invited to compete at this show. There will be no entry charges and admittance will be judges from M. A. C.

Intending exhibitors who wish for further details may obtain desired information by writing Douglas Bow or the office of county club leader at the court house.

Saginaw Valley Grain Growers have agricultural purposes.-Race rioting in recently won many honors at the Nastate this year.

A PROP FOR DOORS.

saver of time, and it is always on the job: Place a small strap hinge on the lower cleat of the door six or eight inches from the end and nine inches bluntly sharpened and about eighteen inches long is fastened to the other end of the hinge. When left to itself this strip will drop to the ground and saving steps.-W. E. Whitney. form a brace.

To keep the brace off the ground when not in use, a strong cord is fastened to a screweye near the lower end THOSE using small gasoline engines of the brace, run through another screweye eighteen inches above the

Do You Feed the Hogs?

F you look after this important chore, you, no doubt, have worked out little short cuts or conveniences, either in feeding or earing for the hogs, that would be helpful, or suggestive, to your neighbors.

Just to give your neighbors a chance, will you not write me a letter telling briefly of any method of feeding, or caring for the hogs, or of any convenience about your hoggery which is adaptable to other farms?

For each of the five best letters received I am going to send one of the handiest pair of combination pliers that ever went upon a farm. No fancy writing necessary, merely send a plain, letter by January 20. Address it to The Handy Man, Michigan Farmer, Detroit, Michigan.

hinge and then to the second cleat of the door. The string should be long enough to permit the brace to drop to the ground. A nail is then driven in the door far enough from the top screw so the string when hooked onto the nail will hold the brace up against the door .- Charles B. Ward.

MAKES STABLES CONVENIENT.

MUCH time is wasted on many farms by retracing steps. To avoid this, the placing of doors, gates and passageways at convenient places the beginning of another, is of the business offers greater opportunity for concentration on the work in hand,

were erected years ago, little attention was paid to step saving; but with the WE find the following described increased cost of labor this becomes prop for outside doors a great of vital importance, a realignment of stables may be a matter of economy.

If the bins for the storage of grain for feeding are not located in the stables, the granary and cribs should be from the ground. A strip of wood located on the path to the stables, and a strong cart with high wheels, on which may be loaded several items of feed, has been found a great help in

CONVENIENT ENGINE HOUSE.

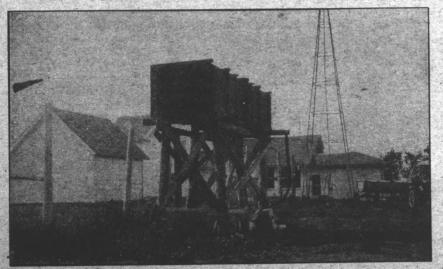
out of doors will find the engine house of the type built by the writer, to be far handier than an old oil cloth, or a box, to cover the engine. Our house was built with a wall of sheet iron on the pulley side of the engine. allowed the pulley to extend through a hole in the sheet iron. On the opposite side the door made up the wall. This door may be removed to allow room for cranking, or working on, the engine. The two ends may then be built of old lumber, and a roof placed over the top to shed water. We find this house easy to build, handy and convenient, and greatly prolongs the life of the engine as well as keeps it in more perfect running order.-T. J. Robertson.

METHOD OF CLEANING STABLES.

THE following is a short-cut which I found helpful in the stable. Formerly I used to gather up every little particle of dirt or manure with a shovel. I now take out what I can of horse manure with the barley fork and the cow manure with the manure fork. Then I use a scraper with a two-foot blade and six-foot handle to shove the material left in the horse stables, up against the two-inch planks on which the horses stand, and in the cow stable I shove this litter into the gutter. After the animals are then properly bedded, the stables look neat and altogether satisfactory. I find this saves about one-third of the time required by the old method.-Alex. Paulsen.

WATER THE HORSES INSIDE.

WE used to water the horses outside the barn. A great deal of time was required in leading a single in the barn so that one may pass di- horse out and waiting for it to drink rectly from the finish of one chore to the water needed. We now have a the beginning of another, is of the tank inside the stable. With this greatest help. In choring, the best change we untie one of the horses and short cut is a long head. No other permit him to drink while we clean out the stall before he returns. This little change enables us to save a great deal of time both morning and evening in On many farms where the stables caring for the horses.—Edward Elson,



Spray-mixing Tank on the Farm of Tom Buell, President of the Michigan Potato Growers' Association.

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Always Give Name and Address When Sending Inquiries. as Satisfactory Service Cannot be Given to Unsigned Letters

LINE TREES.

I understand that there is a law to compel a neighbor to cut timber along a line fence, where it hangs over the fence and does considerable damage. Please let me know what the law is, and what steps to take.—C. B.

It is believed there is no such law. The owner of land over which branches of trees hang from the other side, has the right after notice to the owner to remove them, and reasonable opportunity to do so, to trim off the overhanging branches himself, doing no more damage than is necessary to remove them .- Rood.

HUNTERS.

A is the owner of a farm and has signs up warning hunters to keep out, There is a ditch through this property, and hunters persist in hunting along the right-of-way of this ditch, claiming they have the right to do so, and that Mr. A can't keep them off. Who is right?—R. W.

The ditch is not a highway, and the hunters have no greater rights there than elsewhere.-Rood.

WILD CARROT WEED.

I would like some information regarding the Dancus Carota, or more commonly known as Wild Carrot. I have an eight-acre field of fine black loam, comparatively new soil, level and well drained, in the southwest corner of a section which is entirely covered with this weed. I now have it fall-plowed and I would like to know what crop would be the best for the destruction of this weed, a cultivated crop or oats? Or is there some other remedy which is good? Also, does this plant spread by seed or root?—C. L. S.

This weed will not survive any system of rotation of crops. It will not stand plowing. It is, however, a perfect nuisance in clover or any meadow

ally get it from clover seed. Where Farmers have always utilized grain one has it in a crop of clover seed, it spoiled for human food by feeding it to would pay to go through the field with live stock. Sometimes cows or horses a spud and take every plant out. If you do not intend to harvest the clover tically compelled to do so. Is is more ing to other crops will take care of hogs are not so particular in their them.

Of course, after this plant is once be if left, we are bound to be bothered every time we have a crop of clover seed because the seed will get scattered.

For ordinary crops, there is little the fact that it gets mixed with clover will be no bad results. seed and nearly ruins it for sale.

BUTTERMILK FOR PIGS.

Please tell me if buttermilk is good to grow and fatten young pigs. I can get it for one and a half cents per gallon. Can I make any money buying it at that price and feeding it to fifty or more pigs?—I. M.

Buttermilk of good quality, at one and one-half cents per gallon, is an ideal food for pigs and very cheap. Used in connection with corn, rye or barley at the rate of three pounds of buttermilk to one pound of grain it will give better results than if fed in larger quantities. It may safely be assumed that buttermilk to which no water has been added is equal in value to skim-milk for pig feeding .- Pope.

MOULDY WHEAT FOR COWS.

I have some wheat that got heated. It has a blue mould in it. By mixing it with one part wheat, two parts oats, would it hurt my dairy cows?—I. E. L.

There is little or no danger that

It is propagated by seed and we usu- stock when given to them as food. will refuse to eat it until they are pracseed, then plowing the field and plant- often fed to hogs for the reason that tastes.

If this wheat would injure the cows, established on the roadside, so it will mixing it with oats would not overcome this, but the cows will be more apt to eat it because the oats will cover up or tend to at least the abnormal flavor of the wheat.

It will be advisable to feed carefully cause for concern from this plant. But at first and in small amounts, until you it should be exterminated because of are sure, but in all probability there

WARRANTY.

I bought a cow a few days before she reshened. The cow was in very poor hape. But the man said she was a freshened. The cow was in very poor shape. But the man said she was a good milker, giving sixty pounds of milk per day. I brought her home, and from the first night she has not eaten well, and only gives ten to twelve quarts of milk per day. I telephoned him about her and he wrote saying he did not guarantee her and if he had wanted her he would not have sold her. What can I do?—E. Y. freshened. What can I do?-E. Y

The matters of fraud and warranty are questions of fact, as to which the burden would be on the plaintiff: but if made out the plaintiff could recover the purchase price if he notified the seller of his repudiation of the sale as soon as he learned that the cow did not comply with the representations, or he might keep the cow and sue for the damages from the breach of warranty.-Rood.

OPENING HIGHWAYS.

Is a three-rod road on a quarter-line wheat spoiled by heating in the bin a legal road to be laid out? Must the taxes. will be injurious to dairy cows or other road be directly on the line or may it Rood.

be beside the line, and close to it? The town board wishes to buy a right-of-way on a quarter-line. A and B, who own the farms adjoining, decided to ask \$200 for right-of-way, selling two acres or one and one-half acres, whichever the road required. The board decided to lay out three-road road. Without consulting B, A agreed to take \$150 and commissioner went to work without saying anything to B. B supposed when they began work on the road that the board had accepted the offer of when they began work on the road that the board had accepted the offer of \$200. Could the board have forced this road through? B not being willing to settle for \$150, they bought a three-rod road of A and put the road side of the quarter-line. Can B force them to settle for the trespassing and take the right of way and pay the \$200?—A. S. Entry with consent of the owner is

Entry with consent of the owner is not trespass. The highway does not have to be on the quarter line. B cannot force to township to take and pay for his land .- Rood.

LIABILITY OF PUBLIC OFFICER.

Our township treasurer returned the ditch tax of 1918. My brother, serving in France in the United States army at that time, owned the farm. I was renting the place. I asked the treasurer if there was a ditch tax on the place and he said there wasn't. October 1, 1922, we got a letter claiming there was a ditch tax title against it. The treasurer had returned the ditch tax delinquent. There was personal property on the place. Is the township treasurer responsible for those taxes? Are soldiers exempt from taxes when in service?—W. K. C.

A public officer is liable civilly to any person injured by a misfeasance or non-feasance of a ministerial duty. To make him so liable it is necessary to show that the duty was plain, absolute, and imperative. It is believed to be the duty of the treasurer correctly to inform persons inquiring as to the amount of tax due from them. The treasurer is clearly not liable for the taxes. Nor is the soldier exempt .-

Better Potatoes Make Better Markets

This is the Opinion of a Dealer Who Has Been Impressed with the Way the Consuming Public Takes Hold of Good Stock

HE following letter from Mr. De generally:

dorse the campaign for the production of better quality potatoes throughout the eastern counties of Michigan.

In our mind there is no reason why cannot produce fully as good quality potatoes as other sections and be a credit to this branch of farming.

It is a well known fact that Michi- million people. gan is the leader among all the states whereas we, at this end where we come the first considerations. If this were stances is good profit. not true, why would it be necessary to Detroit will soon be drawing her entire requirements from other districts.

Haven, of Andrews Brothers, of ers of other states for taking advanthese stations this and other years on cient potatoes nearby to supply the de-Detroit, who handle a large vol- tage of any market that offers them account of the poor quality of the po- mand in Detroit for quality and quanume of potatoes, will be of special in- an outlet for their production, we beterest to potato growers and farmers lieve we are justified in questioning no amount of grading or sorting would smaller margin of profit as our risk is the business judgment of the growers. It is with a great deal of pleasure of Michigan adjacent to Detroit for al- potatoes from other sections. The sta- we ship. No one of your readers can and anticipation of a vast amount of lowing the farmers of these other good to be accomplished, that we en- states to put it over them when it would be the simplest thing in the world, by paying more attention to the selection of seed, selection of soil adapted to potatoes, preparation of soil certain localities in eastern Michigan for planting, fertilization, care of the time, to keep every other state out of this great Detroit market of over a

If they would just consider the wonin quantity of potatoes produced for derful advantage they have over the market but the growers in some parts other potato growing localities, not to Detroit need to do is look up the of Michigan seem to carry the idea only of other states but of their own achievements of the growers in the that quantity is the desired goal, state and this quick money crop, we believe they could keep all others out almost in direct contact with the ulti- and reap the benefit of the low carrymate consumer, know positively that ing charge in these days of high freight appearance and cooking qualities are rates when the difference in all in-

We know whereof we speak in these bring into Detroit, potatoes grown in matters, if you will pardon a personal Idaho, Minnesota, Wisconsin and north-reference, as we maintain a great many western Michigan? Unless the quality buying stations throughout Michigan is improved in this nearby territory, and market hundreds of cars of pota- er as his tools, and that is our reason toes annually in Detroit and other cit- for urging your paper to make this

While no one can criticize the grow- it necessary to close quite a number of able, because if we can secure suffitatoes offered by the growers, which tity, we are going to operate on a make marketable in competition with reduced in proportion to the distance tions closed were all in the eastern deny that the greater distance it is neccounties of Michigan.

astrous year for the growers of pota- reflected in the price paid the grower. toes, but to preclude the possibility of a repetition of this season's experience, not entirely selfish in this matter, but we want to urge the growers to follow we know that to be successful ourgrowing crops and grading at digging the advice of your publication and the selves, we must take the other fellow agricultural college and Detroit will and his problems into consideration surprise them with her capacity to ab- and do all we can to help him-he in sorb their potatoes at prices that will turn will do his part. show a handsome return.

All our growers in the territory close Greenville, Cadillac and Traverse City districts where they have made history in quality as well as quantity production, to be convinced that success will five carloads of berries this year withbe theirs also if they but listen to the out one cent of loss attributed to preagricultural college experts whose only aim in life is to help them.

Organizations such as ours for buying and handling the crops to the retailer are just as necessary to the farm-

essary to ship, the greater the risk of We realize that this has been a dis- freezing and rotting, all of which is

· Please understand that our motive is

SHIPPED FIFTY-FIVE CARS OF

THE Lincoln Fruit Growers' Association, the first to build a pre-cooling plant in this state, handled fiftycooling, according to Henry Wattermann, manager of the association. The members are very well pleased with their first year's experiment with precooling.-Mills.

The average Ohio hen lays 68 eggs a ies. We regret to say we have found campaign just as strong as you are year, not enough to pay her board bill.

Notes of a Farmer

By L. B. Reber

pay taxes. Ye scribe collects tax- times a day is sure some arm stretcher. es for this township and listens to the groans and moans as the farmers dig our paper bring back many boyhood deep into their jeans. I listen with a memories. Log barns chinked with very sympathetic ear, for my own taxes make me wonder where the money is coming from. Our taxes are twenty per cent higher than last year, Tast year they were twenty per cent higher than the year before, and so on ad infinitum, ad nauseum, and add bolshevikum, I fear, if a change isn't made. Taxation is rapidly reaching the point of confiscation.

I see that the state university only wants a little over seven million dollars this year. My, but they are modest. One item is a half million for a little piece of land they wish to buy. Suffering catfish! A half million will buy a couple of townships, or even half a county, in some parts of the state. It only costs about four thousand dollars to send a boy to the statesupported "U." for four years. No wonder they are over-crowded; what is a measly four thousand dollars to a farmer? Personally, I should feel rich if I had four thousand cents right now. Nuff of that sore subject.

I cannot brag about winter eggs this time. My pullets are all dolled up in new winter coats, red hats and have even put on a little red face paint but, like so many flappers, it is all show and little substance. I dish out feed until my arm aches, they gobble it down and then give me the glassy eye. I handed out some hard dollars for some "Lay or Bust" mash. A fancy self-feeder came with each bag of feed. My wife grabbed them. She took the cute, wire dingus from the top and used it as a table mat to set hot dishes on and grabbed the crocks for milk crocks. I made a self-feeder out of some old boards and hopefully filled it. A dozen roosters rushed up and gorged themselves. Those roosters show no signs of busting but they surely will lay before spring. I expect to make one lay this week. Right while he is layin', I shall gently lay an axe on his neck. If my Jersey Giants roosters keep on growing they will be able to eat from the roof of the corn crib. They are too young to crow yet but they tower above the other chickens as though they were on stilts.

We went into the winter with the dryest ground we have had for years. All the shallow wells are dry around water from the creeks. The swamps are dry and springs are either dry or only a trickle. Right now there is good sleighing on the roads but nary a where farmers have depended upon sleigh to be seen. I did intend to start the one, or two, crop system they are is howling across the fields and drifting the snow. I hardly will need a step ladder to trim trees this year. I have carried water until my arms feel state taking the lead in another great stretched a foot longer.

HE melancholy days have come, through snow drifts an eighth of a mile the saddest of the year-time to with two pails of water three or four

Those pictures on the front page of



Having an acre, or so, of his land clear ed by the demonstration specialists, brings a mile of smiles across the face of Roy Wiegandt, not yet twenty-one, but the owner of a promising farm near Johannesburg.

mud, ox teams trudging through the snow, minute puddin' and punkin butter, red-topped boots with copper toes, revival meetins' and warm maple sugar, Wow.

FARMING AT ITS BEST.

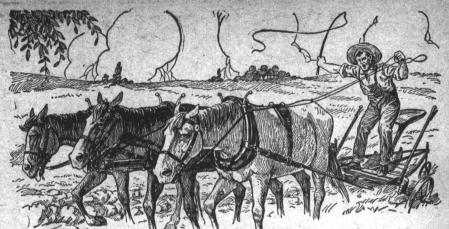
(Continued from first page). at various dates throughout the year. Hogs went to market in February, June and November. The beans were sold in October, receipts for the apples were credited in November and for the potatoes in December.

The keeping of live stock and the growing of many crops also enables the manager to dispose of inferior grades through the live stock department. Not only this, but time which the specialized farmer would waste, here and some are compelled to haul this man spends in the production of animal products.

These facts are beginning to be generally understood. In a dozen states my grape trimming today but the wind now being urged to turn to diversified schedules. No state can lay claim to a more diversified type of farming than Michigan. Thus again we see our Wading farm movement.



With good help unavailable, H. O. Ruggles, of Oakland county, has taken the first step in an experiment to learn what can be done at feeding calves from Holstein cows and an Angus bull. The old Holstein bull is shown at the right and the newly acquired Angus bull calf may be seen at left.



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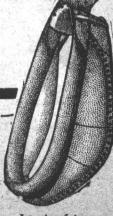
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Opinions & Comments Michigan Farmer Readura

LESSENING THE TAX BURDEN.

THE editorial in a recent issue of The Michigan Farmer, advising that our members in the legislature be advised of the people's desire for relief from the present heavy tax burden, it is to be hoped will be heeded and good results will follow.

It would seem that a resolution, adopted by granges and farmers' clubs, at their next meeting and forwarded to their members in the legislature, would be the proper thing to do, worded something like the following: "Resolved, by the (name of grange or club), that we most earnestly request of our members in the legislature that the appropriations for our state institutions be kept at the very lowest amount of money consistent with their proper and absolute needs and that highway improvement and all other public utilities be held within proper limits to the end that the present heavy tax burden may not continue with its present crushing weight, many farmers being obliged to hire the money needed for the payment of their taxes."-J. T. Daniells.

DISAGREES WITH BROTHER REBER.

Dwarf apple trees and Delicious apples. Now, my experience with Dwarfs and with the Delicious has been gratifying to the highest degree. Perhaps his soil is not the best for Dwarf trees. Mine are set in sandy loam.

The Delicious is also in quite sandy trees.-J. A. Symes, Kent County.

soil. They have made very thrifty, vigorous growth. They were just little one-year whips when set five years ago, and now are eight or ten feet high and well proportioned. They are inclined to upright growth like the Transparent.

They gave me a few specimens a year ago last harvest, and this year favored me with better crops. One tree produced two bushels of the fruit. Too much cannot be said. Of all the apples I have ever known, there is none combining so many good qualities. That peculiar spicy, exquisite flavor of the tender, brittle pulp was present to a high degree, even at harvest time, and is still retained to the present date. The fruit was sampled by very many of my friends and neighbors, with the unanimous vote that the flavor was simply "Delicious."

As for appearance, they were large, many of the specimens excelling the highly ornamental cuts in the catalogs. I had some on exhibition at the local bank and nurserymen on seeing them procured specimens to help them with their sales.

The Dwarfs I set fifteen feet apart, tilled the ground, alternated sweet corn and potatoes. Now, the ground is seeded to alfalfa. I have Dwarf, Astrachan, Delicious, McIntosh Red, Northwestern Greening, Tompkins, A MONG other things I read Brother County King, Baldwin and Winter Ban-Reber's article, "Apples and Other ana. A tree of this last variety bore Things," and note what he says about to maturity forty-two apples the second year after setting. I am fully persuaded there is a place for Dwarf apple trees with those who have limited space, and those who are limited in time, like myself, who was past seventy-five at the time of setting the

Farm Outlook Is Good

FARMERS see some encouragement bushel than shown by previous records. in the agricultural outlook for 1923, prices of farm products, according to the United States Department of Agrition of cotton, corn and live stock for higher levels than they actually were. the coming year. This is regarded as an unfailing index of optimism.

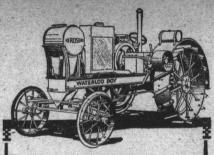
"Prices of all farm products except further advances, with live stock prices thin cattle. Some of these cattle have about unchanged.

1922 was only about seven per cent grain and roughage fed to them. Farmmore than in 1921, and is close to the ers are skeptical over the continuation average of the preceding ten years, de- of this condition. spite the general belief that there has sively larger. The corn crop is actu- low prices, car shortage, and unfavorally smaller by nearly 200,000,000 able weather."

"Exports of wheat and flour from the due largely to the recent advances in United States during the first eleven months of 1922 totaled 215,614,000 bushels, compared with 340,647,000 culture. "It seems to be the general bushels during the same period in 1921. feeling on the farm," say the depart- Europe's reduced purchasing power is ment investigators, that agriculture is strikingly shown in decreased exports. climbing out of the abyss of the past Had European countries been able to few years and will soon plant its feet purchase larger quantities of American on solid ground. Farmers are begin- agricultural products, prices undoubtning to talk about increased productedly would have been driven to much

"Receipts of hogs at markets have borne out the prospective increase in hog production indicated in the departpotatoes and eggs have made material ment's pig survey last spring. About net advances during the year, com- twenty-seven per cent more cattle and pared with prices a year ago, and in twenty per cent more sheep and lambs most cases are higher than in 1913. In are on feed this year, compared with live stock circles, however, some con- last year. Farmers view the situation cern is felt over the drop in beef cattle with alarm because of a possible drop and hog prices from October to Novem- in cattle prices on account of abundant ber this year. In November farm pric- supplies, which may mean that farmes of ten leading crops advanced eight ers will get lower prices for grain in points as shown by the department of the form of live stock than would have agriculture's index figures. During the been secured in the grain as grain. For same period farm prices of live stock the present winter season of 1922-1923 FORDSrun 34 Miles declined five points. Since these com- feeder cattle went into the corn belt pilations, crop prices have made some feed lots at \$5.50@7 per 100 pounds as already started back to killers and are "Crop and live stock production in showing satisfactory prices for the

"Large quantities of potatoes are been large surplus production this still in the hands of growers, shipments year. Production of potatoes and ap- of main crop potatoes being nearly fifples has been unusually heavy, but of teen per cent less than last year, dethe staple products such as the cereal spite the record-breaking crop. This crops, cotton and tobacco, is not exces- has been due to heavy local supplies,



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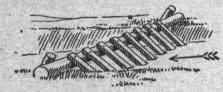
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AN EFFICIENT FLOOD GAP.

GREAT deal of needless work and worry is practiced by farmers all. over the country where streams of water run through their farms. After every heavy rain, they must make their rounds to see what condition the flood gates are in; and almost invariably they find some repairs needed. They usually count themselves lucky if some of the gates are not entirely gone. All this is unnecessary since a reliable flood gap can be made at less expense than the ordinary flood gate, and will be "right there with the goods" when the flood is over.

It is so simple in construction that a glance at the illustration almost explains the idea. Note the arrow is pointing the same direction that the



stream flows. A substantial pole is placed across the stream from bank to bank. Unless the pole is held at each end with a fence post, a short post or stake should be driven at each end and spiked to the pole. Short poles or twoby-fours are slanted and driven into the ground a few inches and spiked to large pole. These should be placed about ten inches apart.

When the water is low it simply flows through between the bars. Naturally some drift will collect on these slanting bars, but a high water will take this drift right "over the top," leaving the gap free from rubbish. I am not writing this from hearsay or imagination. My father has made a number of these flood gaps and says that nothing could induce him to go back to the swinging gate.-V. A. G.

FINDS CAUSE OF MOSAIC DIS-EASE.

A MICHIGAN man, Dr. Ray Nelson, of the University of Michigan, has found after a long investigation that a one-cell animal, known to scientists as of the protozoan type, causes the mosaic disease, which destroys nearly thirty per cent of the country's potato crop as well as raising havoc in tomatoes, lettuce, clover, beans and tobacco. This little animal is about two thousandths of an inch long. With the discovery of the cause of this disease, it is hoped that a means for its control will soon develop.

BEAN CROP AT LOW ESTIMATE.

MICHIGAN'S bean crop is way be-low the early estimates for the crop. These early figures placed the Michigan crop at 5,000,000 bushels, but the latest report indicates a shrinkage to 3,718,000 bushels. The United States crop is also lower than expected, being below the four-year average con-

The shrinkage in Michigan's crop is supposed to be due to the abandoned acreage which have been damaged by rain, and to low yields in some parts of the state. This falling off in production will undoubtedly have a bullish influence on the price. In fact, some jobbers state that it has been effective already. Because of the low production the December slump did not materialize, but instead the prices increased. It is estimated that about half of the Michigan crop is still in the hands of the growers.

Fresh air and sunshine are so plentiful that we should arrange to take every possible advantage of the disease insurance and vitalizing influence that they afford in the dairy barn, the chicken coop, the hog house and the home itself.

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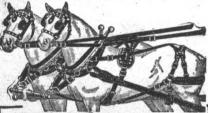
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News From Cloverland

STOCK.

THREE banks at Sault Ste. Marie "Settlement and Forest." are said to have formed a fund to

HERDS.

Houghton County Board of Supervisors "State Supervision of Land Sales." in connection with its campaign to rid the county of bovine tuberculosis. Con- will be, "Conservation Assets of Lake siderable data bearing on the situation States." Under this head, Michigan in Houghton county was presented will be represented by Albert Stoll, The county physician stated to the Jr., of the Michigan Conservation Comboard that the dairy herd at the Coun-mission; Wisconsin by W. E. Barber. ty Infirmary was the only herd which of the Wisconsin Department of Conhad been tested and re-tested for tu- servation, and Minnesota by W. T. Cox, berculosis in the county. On the other of St. Paul. hand, he reported that the cleanliness of the milk produced in the county had "County Organization and Farm Develgreatly improved in recent years. This, opment" will be handled by Mr. M. J. however, did not prevent tuberculosis Thompson, of Duluth. L. F. Livingand he admitted that little headway ston, of Marquette, will describe landwas being made in the prevention of this disease in the county, and milk john M. Swinehart, of Madison, Wisinfection was held in part responsible consin, will speak on "Wholesale Clearfor this situation.

FARM SCHOOL ACTIVE.

motor-sled has been constructed by the over region. students and is said to have given farm economy.

CREASED.

THE county agent of Schoolcraft county has prepared a study of the present farm situation in that county based on a comparison of the 1920 A SERIES of meetings that will fea-United States census returns and the A ture the dairy cow as an asset to size of farms has decreased from 122.7 meetings. acres to 98.14 acres per farm.

A REAL TREAT.

consin and Michigan in its scope. This meetings. is the third gathering of the kind held in the northern Great Lakes region, that two years ago taking place at St. Paul, Minnesota, and that a year ago being held at Milwaukee, Wisconsin.

A considerable number of distinguished speakers have already signified their intention of being present. In the session on the forenoon of January

WILL HELP FARMERS BUY LIVE 18, the general theme will be, "A National Reclamation Policy," and P. S. Lovejoy, of Ann Arbor, will talk on

In the afternoon the topic will be assist in the purchase of live stock national land settlement policies. At in Chippewa county. The interest of this session Mr. Oscar Smth, commisthese banks in this new departure is sioner of immigration of the state of said to be connected with the recent Minnesota, will describe Minnesota's rural credits conference held at Mar-quette in November. Faast, of Eau Claire, Wisconsin, will present Wisconsin's colonization plan. WOMEN FIGHT FOR CLEAN DAIRY The Michigan plan to be presented to the 1923 session of the legislature will also be described at this session. Mr. A WOMEN'S club of Calumet was Elmer Grimmer, president of the Wisrecently represented before the consin Real Estate Board, will discuss

The general topic for the evening

At the Friday morning's session, clearing progress in Michigan, while ing in the Utilization of Cut-over Lands." Wallace Ashby, of Meadowlands, Minn., will speak on "Power in Land-clearing." E. G. Quamme, presi-FIFTY-NINE students are enrolled dent of the Federal Land Bank at St. in the second term of the Menomi- Paul, will state how the Federal Land nee County Agricultural School. A Bank can help the settler in the cut-

In the afternoon, Mr. C. N. Housegood service on the state road. Boys holder, associate director of immigrain the radio course are constructing tion of Wisconsin, will speak on "State their own receiving sets at low cost. Land Mortgage Associations as a A radio short course for farm boys will Means of Financing the Settler." start January 8. The federal men are "Pending National Rural Credits Leg-constructing bee-hives in preparation islation" will be considered by Mr. Osfor the summer course in bee-keeping. car E. Bradfute, president of the Amer-A general review of the school activi- ican Farm Bureau Federation. "The ties indicates that they largely have to Dairy Cow the Settler's Friend," will do with practical farm problems and be discussed by Professor Reid, of M. A. C. The Upper Peninsula representative of the Michigan Farmer will at-NUMBER OF FARMS GREATLY IN- tend these meetings and report them for this paper.

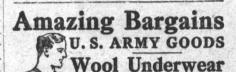
TO BOOST DAIRYING.

statistics gathered, this year, by the farmers of northern Michigan will take supervisors. An increase in the num- place on February 14-15-16 at Ironwood, ber of farms in the county of 24.6 per Escanaba and Sault Ste. Marie in succent between the two dates is indicat- cession. The extension department of ed. The increase of farm acreage is the Michigan Agricultural College and 8.8 per cent. Still only six per cent of the Upper Peninsula Development Bu-Schoolcraft county is in farms. The reau are cooperating in staging these

The speakers for these meetings will include Prof. O. E. Reed, of the Mich-CLOVERLAND FARMERS TO HAVE igan Agricultural College; A. G. Kettunen, of Marquette; L. F. Livingston, of Marquette; C. E. Gunderson, of Iron-ONE of the most important meet-wood; B. P. Pattison, of Escanaba, and ngs in relation to agriculture, re- H. C. Lawton-all men qualified to forestation and conservation ever held speak on the dairy cow and the farmer. in northern Michigan, will take place Dairying as a business, dairying in a at Menominee on January 18-19. This new section, calf clubs as a means to is the third gathering of the kind held an end, land-clearing, and the future of gress, which includes Minnesota, Wis- the industry will be topics at these







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Fertilizers in Orchards Pay

Pennsylvania Tests Shows Value of Orchard Fertilization By Roy E. Marshall

Professor of Horticulture, M. A. C.

station, show nitrogen to be the most per cent more, while phosphorus gave important element in increasing the two per cent less than the check plots. yields of apple orchards. These experiments were conducted for a period of ten years in six bearing apple orchards located on soils of varying degrees of fertility, as shown by chemical in several parts of the state. Furthermore, four of the orchards received the usual orchard tillage and two were sod orchards.

-In one of the sod orchards, that was ten years old at the time the experiments were started, the three plots which received nitrogen in combination with phosphorus, potash, or both phosphorus and potash, gave an average annual yield of 473 bushels per acre, while the yield for the non-fertilized plots was 228 bushels. Since phosphorus gave a yield of only twenty-three per cent greater than the non-fertilized plot, and potash failed to increase the yield, it is evident that most of the 107 per cent increase in the yield of the plots receiving nitrogen over that of the unfertilized plots was due to the nitrogen. Dr. J. P. Stewart, under whose direction the work was done, says that nitrogen was directly responsible for an average annual gain in yield of ninety-four per cent, or 214 bushels per acre.

In another similar experiment nitroyield of 148 per cent, or 171 bushels per acre, while phosphorus gave an increase of twenty-seven per cent and potash twenty-three per cent over the unfertilized plots. Furthrmore, the plots receiving nitrogen produced fiftyfour per cent more twig growth than the unfertilized ones.

In the other four orchards, which were under cultivation, nitrogen gave average annual increased yields of thirty-three, fifty-three, six and twentyone bushels per acre respectively over the non-fertilized plots. The interesting thing about these tests is that the poorest soil from the standpoint of chemical analysis gave the poorest response to the fertilizer treatment while the richest soil gave a twenty-seven per cent increase due to the use of the orchardist must rely upon the performance of the orchard in the way of yields, rather than upon chemical analysis in determining whether or not the orchard is in need of fertilizers.

In summarizing the results of the six experiments, Dr. Stewart states that nitrogen gave an increased yield of these heading-in is not needed. fifty per cent, phosphorus fourteen per Nitrogen in combination with other elements produced fruit with sixteen per cent less color, while the fruit from the phosphorus plots showed three per cent less than that from the potash plots two per cent more color.

HE Pennsylvania orchard fertil- over the ten-year period shows nitroizer experiments, as reported in gen to have produced nineteen per Bulletin 153 of that experiment cent more twig growth, and potash two

> The results of these experiments show nitrogen to be by far the most essential single element in increasing apple orchard yields and that phosphorous has produced profitable gains while potash is of doubtful value in the average orchard. Furthermore, the combination of nitrogen and phosphorus was usually much better than nitrogen alone and the two elements can profitably be combined in orchard prac-

CAREFUL PRUNING PAYS.

FRUIT growers throughout the state are just now giving much attention to pruning, and questions frequently arise regarding the best procedure under certain conditions.

In the opinion of horticultural experts, many fruit growers often prune too much, without regard to the real need of the tree. It is pointed out that with trees which were well selected when the orchard was set out, it is necessary to remove only occasional branches which start out in the wrong place and to remove dead, injured, and crossed limbs.

If the trees are bearing small fruits, gen gave an average annual gain in if the tree tops contain many dead branches, or if the seasonal growth is short and scant, judicious pruning is recommended as a means of rejuvenation. This usually consists in cutting back many branches and in entirely removing others. The following general rules are applicable under such conditions: Prune weak-growing varieties heavily; strong-growing kinds lightly. Varieties which branch freely need little pruning; those with many unbranched limbs, · much pruning. Prune trees in rich, deep soils lightly; in poor, shallow soils, heavily.

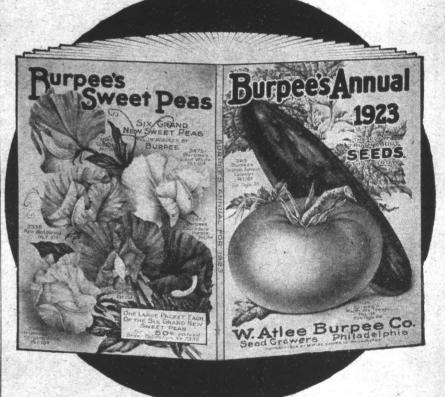
The cutting back of all the branches of a tree is practiced regularly only with peaches and some plums, according to the station experts. This is attributed to the fact that with these fruits, the wood of the past season, nitrogenous fertilizers, showing that and therefore the crop, is borne progressively further away from the trunk so that it is necessary to head-in these fruits by cutting back the branches in order to keep the bearing wood near most plums are borne on spurs from wood two or more years old and with

The best time to prune is in the wincent, and potassium nine per cent over ter, when the wood is dormant, that is, and above the yields of check or unfer- at any time after the leaves drop in the fell until the hude start in spring

HONEY IMPROVES SOFT DRINKS

THE Bureau of Chemistry of the United States Agricultural Depart-"With many varieties, the reduction in ment, in its experimentation on soft color can be fully overcome by defer- drinks, has found that the quality of ring the picking of the fertilized fruit such drinks as root beer, sasparilla until approximately the same degree of and chocolate can be greatly improved ripeness is reached as that attained on by replacing with honey one-half of the checks at the usual picking sea- the sugar used in their manufacture. son," says Dr. Stewart. The fruit from This improvement in quality causes the fertilized plots was slightly larger no decrease in the food value of the than that from the unfertilized ones. drink and at the very slightest increase The average of the six experiments in cost of three-tenths of one per cent.

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TAKING OUT THE TONSILS.

task than the operation itself.

without 'em?"

Mrs. Harper was quite right in her by spectacles. protect. There is a use for the tonsils. Conservative physicians do not remove the tonsils of young children unless it is clearly evident that they are in such condition as to seriously impair the child's health and development. After puberty the tonsil has no function and in normal health it undergoes atrophy; but if it is diseased it lingers along, usually causing much sore throat and sensible thing to do with it is to remove it.

tonsils. When these glands become must be kept clean and allowed to heal enlarged in such a way as to interfere without interruption by "picking." with proper breathing or when they become diseased, even though not enlarged, they must be taken out. Their presence in the body is then very dangerous to health. It is not merely that not supposed to give medicine and look the throat and neighboring glands are after the sick and see they have proaffected but the poison spreads through visions and care and trouble is?—Mrs. J. C. the entire body. Often it causes the swelling and pain in the joints commonly known as rheumatism. It affects the heart severely and is one of the most common causes of the heart disease that appears later in life and causes so large a proportion of all deaths. Once the tonsil has become infected and the infection has become chronic the only wise thing is to have a surgical operation.

doctor. There is more to it than mere job, give any satisfaction. ly chopping out the tonsil. It is highly important that every scrap of diseased tissue shall be removed in such a way that the whole focus of infection is cleared and that tonsillar tissue will not grow in again. This is not a simple matter and even with the best of skill there may be left some fragments of lymphoid tissue that will afterwards increase until it leads one to think that the tonsil was never removed, but this is much less likely at the hands of an expert. Have diseased tonsils removed by all means, but be sure to get the ation.

APPLES IN DIET.

Is there such a thing as apples, either fresh or cooked, being harmful to any one, especially one troubled with constipation,—I. J. H.

have no personal knowledge of anyone vitalized tissue. being unable to eat apples so long as a normal digestion is enjoyed, yet I must admit the possibility that some may have an idiosyncracy-against

HAS DIZZY SPELLS.

count for such spells. The most likely to use from a pint to a quart daily.

is that your nutrition is below par on account of the burden of the two bab-THE job of getting the consent of ies. This would be helped by taking Mrs. Harper to the removal of extra nourishment, such as milk, either Mary's tonsils was much more of a fresh or malted, drinking cocoa, etc. You should also be particular to get "I don't believe in it," Mrs. Harper enough sleep. If your rest is disturbed declared. "If there had not been a at night be sure that you make up for use for the tonsils they never would it by getting a long nap in the day. have been put there. How will she do Another very likely thing is that your eyes are at fault and need correction

COLD SORES ON LIPS.

What is the cause of sores, commonly called "cold sores," on the lips?—F. J. H.

The skin has much in common with the internal mucous membranes. When "cold" occurs and inflames the mucous lining of mouth and throat by more serious troubles, and the only catarrhal infection it is a very logical thing that this should spread to the skin in close proximity. Such sores, Even young children are very often known to doctors as "herpes labialis" proper subjects for the removal of the are really a catarrh of the skin. They

THE HEALTH DOCTOR.

If the health doctor is sent out is he

This depends upon the contract that he has with the county authorities. Sometimes a county only engages a health officer to look after quarantine and sanitary work. In such a case he would be under no obligation to go further unless prompted by humanitarian impulses. You should get your county officials to employ a doctor to give his whole time to looking after the health, of the community. Then Tonsil surgery is not an easy job, you will get better services. Few docone that can be done by any and every tors who do this work as a part time

HOW TO TREAT CHILBLAINS.

What is a good thing to do for chilblains?—G. R.

A chilblain is a spot of defective tissue in which the circulation has been destroyed by frostbite. Around it is usually a large area of poor tissue in which the circulation is very feeble. This is always aggravated by pinching the foot into a tight shoe or getting them cold or wet. Woolen stockings very best skill available for the oper-should be worn and nothing should be allowed tight enough to impede the circulation. Do not warm the feet by artificial heat but bring the blood back by rubbing or bathing in cool water. Lotions containing camphor, tar or menthol may relieve the itching. It is important to eat plenty of nourishing food and build up the system in every I consider the apple the most bene- possible way so that tissue building ficial of all domestic fruits. It is espe- may progress readily. You will not cially helpful as a spur to the bowels cure chilblain simply by "putting someand is a great tonic and appetizer. I thing on." You must build up the de-

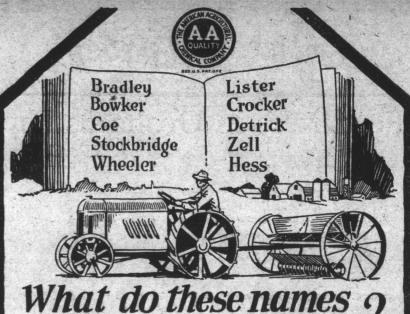
MILK FOR AN ADULT.

may have an idiosyncracy-against them, just as is the case with straw-berries and other fruit.

Is there any good reason why the drinking of milk is harmful for an adult? In his eighteen rules, "How to live 100 years," by Sir James Sawyer, rule nine is "Drink no milk."—L. P. F.

Milk is a food and one of the best foods that can be used for adult and I have dizzy spells; am not able to child alike, though not so indispensible see for several minutes. I also faint at to the adult person. It should be to the adult person. It should be contimes. I have two babies aged five and sixteen months. The spells have come since my last baby.—Mrs. J. H. D.

to the adult person. It should be considered as a food rather than a beverage and there are few hearty adult person. Several different things might ac- sons who will not find it to advantage



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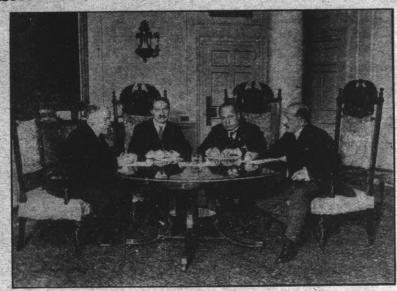
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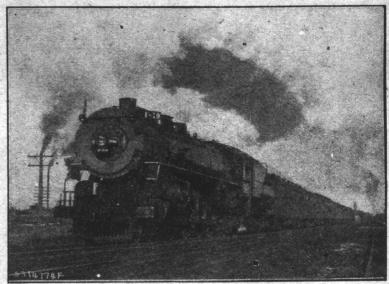




WORLD EVENTS IN PICTURES



Four of a kind—the Premiers of France, Italy, England and Belgium in conference at Downing Street, London, on German reparations and Allies' debts.



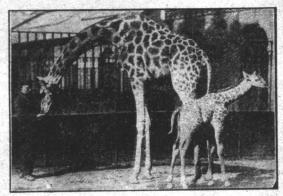
The Union Pacific Railroad has recently announced that this largest passenger locomotive in the world is to have fifty-four brothers for use during the heavy winter tourist traffic to the west.



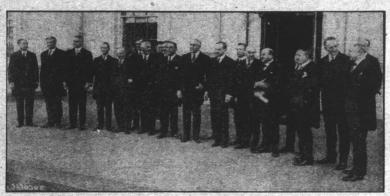
This rickety Paris taxi that helped save France from the Germans has been placed in the war museum of Hotel Des Invalids.



O. E. Bradfute, of Ohio, has been elected president of the American Farm Bureau Federation.



Ornamental but not beautiful are these African beasts with their long necks and forelegs that make them so ungainly.



Fifteen of the governors attending the fourteenth annual governors' conference, conferred with President Harding on the prohibition question. Two out of the fifteen were "wets."



Following the execution of four Irish Republican leaders on charges of possessing weapons the supporters of the Republican movement paraded to Grasnevin cemetery carrying biers.



Antique treasures of \$40.000.000 was found in the tomb of Egyptian king in ancient Thebes.



A group of typical nationalities at the Americanization school in Washington, D. C., where young people of many races are being transformed into real Americans.



\$750,000 worth of smuggled drugs was revealed when "fish barrels" were accidently smashed.

THE CROSS-CUT —By Courtney Ryley Cooper

"Where's Rodaine?"

"In Center City." It was Anita who spoke. "He's getting ready to run away and leave you two to stand the brunt of all this trouble."

Again a silence. And again Harry's voice:

"Tell it. Wasn't you the man?"

"Once more a long wait. Finally: "What do I get out of it?"

Fairchild moved to the man's side.

"My promise and my partner's promwe'll do what we can to get you leniency. And you might as well do it; there's little chance of you getting away otherwise. As soon as we can get the sheriff's office, we'll have Rodaine under arrest, anyway. And I don't think that he's going to hurt himself to help you. So tell the truth; weren't you the man who help up the Old Times dance?"

Taylor Bill's breath traveled slowly past his bruised lips.

"Rodaine gave me a hundred dollars to pull it," came finally. .

"And you stole the horse and everything-"

"And cached the stuff by the Blue Poppy, so's I'd get the blame?" Harry wiggled his mustache fiercely. "Tell it or I'll pound your 'ead into a jelly!" "That's about the size of it."

But Fairchild was fishing in his pockets for pencil and paper, finally to bring them forth.

"Not that we doubt your sincerity, Bill," he said sarcastically, "but I think things would be a bit easier if you'd just write it out. Let him up, Harry."

The big Cornishman obeyed grudgingly. But as he did so, he shook a fist at his bruised, battered enemy.

"It ain't against the law to 'it a man when 'e's a criminal," came at last. The thing was weighing on Harry's mind. "I don't care anyway if it is-"

"Oh, there's nothing to that," Anita cut in. "I know all about the lawhim. In a thing of this kind, you've got a right to take any kind of steps necessary. Stop worrying about it."

"Well," and Harry stood watching a ing of his confession, "it's such a relief to get four charges off my mind, that Make 'hit fulsome, Bill-tell just 'ow you did it!"

lips bruised, obeyed. Fairchild took the bescrawled paper and wrote his name as a witness, then handed it to

faced the dolorious high-jacker.

"What else do you know, Bill?"

"About what? Rodaine? Nothingexcept that we were in cahoots on this cross-cut. There isn't any use denying it"-there had come to the surface the inherent honor that is in every metal miner, a stalwartness that may lie rise. There is something about taking wealth from the earth that is clean. ise that if you tell the whole truth, There is something about it which command to the horse, and the rider

There was a long silence. Finally: Harry and Anita for their signatures. dragging Bozeman to his feet, started came his announcement. At last, he placed it in his pocket and out of the cross-cut with them, Harry's carbide pointing the way through the Then they halted to bundle themselves tighter against the cold blast that was coming from without. On-to the mouth of the mine. Then they stopped -short.

> A figure showed in the darkness, on dormant, but that, sooner or later, must horseback. An electric flashlight suddenly flared against the gleam of the carbide. An exclamation, an excited

"Is there a turn-off on it anywhere?"

Anita gave the answer. "It blind door and into the main tunnel, goes straight through-but he'll have a hard time making it there in this blizzard. If we only had horses!"

"They wouldn't do us much good now! Climb on my back as you did on Harry's. You can handle these two men alone?" This to his partner. The Cornishman grunted.

"Yes. They won't start anything. Why?"

"I'm going to take Miss Richmond and hurry ahead to the sheriff's office. He might not believe me. But he'll take her word—and that'll be sufficient until you get there with the prisoners. I've got to persuade him to telephone to Center City and head off the Rodaines!"

CHAPTER XXIV. Squint Rodaine Escapes.

HE stooped and Anita, laughing at her posture, clambered upon his back, her arms about his neck, arms which seemed to shut out the biting blast of the blizzard as he staggered through the high-piled snow and downward to the road. There he continued to carry her; Faichild found himself wishing that he could carry her forever, and that the road to the sheriff's office were twenty miles away instead of two. But her voice cut in on his

"I can walk now."

"But the drifts-"

"We can get along so much faster!" came her plea. "I'll hold on to youand you can help me along."

Fairchild released her and she seized his arm. For a quarter of a mile they hurried along, skirting the places where the snow had collected in breasthigh drifts, now and then being forced nearly down to the bank of the stream to avoid the mountainous piles of fleecy white. Once, as they floundered through a knee-high mass, Fairchild's arm went quickly about her waist and he lifted her against him as he liter-That's Maurice! I got a glimpse of ally carried her through. When they reached the other side, the arm still held its place—and she did not resist. Fairchild wanted to whistle, or sing, or shout. But breath was too valuablerything. I don't know so awful much down it. Rushing ahead of the others, and besides, what little remained had momentarily been taken from him. A small hand had found his, where it encircled her. It had rested there, calm and warm and enthralling, and it told Fairchild more than all the words in the world could have told just thenthat she realized that his arm was He's taken the Center City road!" about her-and that she wanted it

QUESTIONS

By Teresa G. Morris

Whence cometh the fragrance of lily and rose? Someone hath sent it-yet nobody knows.

Beyond and above the horizon so blue, Isn't there something good, beautiful, true,

The wind and the wave-the woodland, the sea-Who made them? Oh, Life, send an answer to me!

Where are the fairies who make baby smile? What prompts childish laughter-'tis surely worth while.

Golden sunlight, and moonlight, the mist and the dawn Are symbols of beauty unknown and unwon.

The song of the bird winging high in its flight, The sunset, the star's silent glow in the night-

Whence come all these wonders? Whence? Whither and Why? 'Tis Life's strangest riddle—to solve it we try— Yet over these queries we marvel and sigh!

and in ruggedness, and it builds an leaps, sending him plunging through father has explained it to me lots of to thwart it. Taylor Bill was finding death, fleeing for the main road. Anita times when there've been cases before that honor now. He seemed to Richmond screamed: straighten. His teeth bit at his swollen, bruised lips. He turned and faced the three persons before him.

"Take me down to the sheriff's ofmoment as Taylor Bill began the writ- fice," he commanded. "I'll tell you evebecause I ain't tried to learn any-I didn't want to worry about any more, thing more than I could help. But I'll give up everything I've got."

"And how about him?" Fairchild And Taylor Bill, bloody, eyes black, pointed to Blindeye, just regaining consciousness. Taylor Bill nodded.

"He'll tell-he'll have to."

They trussed the big miner then, and

seems honest in its very nature, some- wheeled, rushing down the mountain thing that builds big men in stature side, urging his mount to dangerous honor which fights against any attempt drifts where a misstep might mean

his face! He's gotten away-go after him somebody-go after him!"

But it was useless. The horseman had made the road and was speeding Fairchild gained a point of vantage where he could watch the fading black smudge of the horse and rider as it went on and on along the rock road, finally to reach the main thoroughfare and turn swiftly. Then he went back to join the others.

AL ACRES—Slim Gets Sympathetic About Synthetic Milk

-By Frank R. Leet.



before he realized it, they were at the outskirts of the city.

her, as they hurried for the sidewalks and for the sheriff's office. There Fairchild did not attempt to talk-he left it all to Anita, and Bardwell, the sheriff, listened. Taylor Bill had confessed to the robbery at the Old Times dance floor. and to his attempt to so arrange the evidence that the blame would fall on Harry. Taylor Bill and Blindeye Bozeman had been caught at work in a cross-cut tunnel which led to the property of the Blue Poppy mine, and one of them, at least, had admitted that at Anita Richmond, piling without hesthe sole output of the Silver Queen had come from this thieving encroachment. Then Anita completed the recital-of of their departure for Center City. At happenings which he had encountered in the ramshackle house occupied by Crazy Laura. It was sufficient. The sheriff reached for the telephone.

"No need for hurry," he announced. "Young Rodaine can't possibly make that trip in less than two hours. How long did it take you to come down

"About an hour, I should judge."

"Then we've got plenty of timehello-Central? Long distance, please. Want to put in a call for Center City." there before morning."

"But there's the telegraph!"

operator out of bed-office is closed. we'll beat him there by a half-hour!" Anita started.

"You mean the Argonaut tunnel?"

straight through. We can make it at thirty miles an hour, and the skip in the Reunion Mine will get us to the surface in five minutes. The tunnel ends sixteen hundred feet underground, about a thousand feet from Center City," he explained, as he noted Fairchild's wondering gaze. "You stay here. We've got to wait for those prisoners-and lock 'em up. I'll be getting my car warmed up to take us to the

Fairchild sank into a chair, watching her with luminous eyes. The world was becoming brighter; it might be night, with a blizzard blowing, to every one else-but to Fairchild the sun was shining as it never had shone be-A thumping sound came from without. Harry entered with his two charges, followed shortly by Bardwell, the sheriff, while just beneath the office window a motor roared in the process of "warming up." The sheriff looked from one to the other of the two

"These people have made charges against you," he said shortly. "I want to know a little more about them before I go any farther. They say you've been high-jacking."

Taylor Bill nodded in the affirmative. "And that you robbed the Old Times dance and framed the evidence against this big Cornishman?"

Taylor Bill scraped a foot on the

"It's true. Squint Rodaine wanted me to do it. He'd been trying for thirty years to get that Blue Poppy mine. There was some kind of a mix-up away back there that I didn't know much greasy being faced them and Bardwell, about-fact is, I didn't know anything. The Silver Queen didn't amount to much and when demonetization set in, making a get-away through Center I quit-you'll remember, Sheriff-and

there. Some way, after that, the went away. I'd worked for Squint bestretch of road faded swiftly. Almost fore, and when I came back a couple of years ago, I naturally went to him for a job again. Then he put this prop-Grudgingly he gave up his hold upon osition up to me at ten dollars a day and ten per cent. It looked too good to be turned down."

> "How about you?" Bardwell faced Blindeye. The sandy lashes blinked and the weak eyes turned toward the

"I-was in on it."

That was enough. The sheriff reached for his keys. A moment more and a steel door clanged upon the two men while the officer led the way to his motor car. There he looked quizzically itation into the front seat.

"You going too?"

"I certainly am," and she covered the plans of the Rodaines to leave and her intensity with a laugh, "there are a number of things that I want to say last Fairchild spoke, and he told the to Mr. Maurice Rodaine-and I haven't the patience to wait!"

Bardwell chuckled. The doors of the car slammed and the engine roared louder than ever. Soon they were churning along through the driving snow toward the great buildings of the Argonaut Tunnel Company, far at the other end of the town. There men awaited them, and a tram motor, together with its operator-happy in the expectation of a departure from the usual routine of hauling out the long What's that? Yeh-Long Distance. strings of ore and refuse cars from the great tunnel which, driving straight A long wait, while a metallic voice through the mountains, had been built streamed over the wire into the sher- in the boom days to cut the workings iff's ear. He hung up the receiver, of mine after mine, relieving the own-"Blocked," he said shortly. "The wire's ers of those holdings of the necessity down. Three or four poles fell from of taking their product by the slow the force of the storm. Can't get in method of burro packs to the railroads, and gaining for the company a freight business as enriching as a bonanza "It'd take half an hour to get the itself. The four pursuers took their places on the benches of the car/be Nope. We'll take the short cut. And hind the motor. The trolley was attached. A great door was opened, allowing the cold blast of the blizzard to whine within the tunnel. Then, clat-"Yes. Call up there and tell them tering over the frogs, green lights to get a motor ready for us to shoot flashing from the trolley wire, the speeding journey was begun.

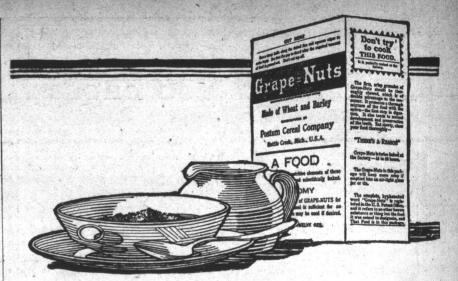
It was all new to Fairchild, engross ing, exciting. Close above them were the ragged rocks of the tunnel roof, seeming to reach down as if to seize them as they roared and clattered beneath. Seepage dripped at intervals, flying into their faces like spray as they dashed through it. Side tracks appeared momentarily when they passed the opening of some mine where the or cars stood in long lines, awaiting Anita already was at the 'phone, and their turn to be filled. The air grew warmer. The minutes were passing, and they were nearing the center of the tunnel. Great gateways sped past them; the motor smashed over sidetracks and switches as they clattered by the various mine openings, the operator reaching above him to hold the trolley steady as they went under narrow, low places where the timbers had been placed, thick and heavy, to hold back the sagging earth above.

> Three miles, four, five, while Anita Richmond held close to Fairchild as the speed became greater and the sparks from the wire above threw their green, vicious light over the yawning stretch before them. A last spurt, slightly down-grade, with the motor pushing the wheels at their greatest velocity; then the crackling of electricity suddenly ceased, the motor slowed in its progress, finally to stop. The driver pointed to the right.

"Over there, sheriff-about fifty feet; that's the Reunion opening."

"Thanks!" They ran across the spur tracks in the faint light of a dirty incandescent, gleaming from above. A the sheriff, shouted his mission.

"Got to catch some people that are (Continued on page 51).



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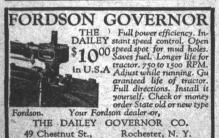
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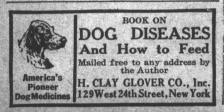
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BETTER JOB NOW!

Does It Pay to Be Humble?

Our Weekly Sermon-By N. A. McCune

be abased; and he that humbleth him-

doth the Lord require of thee, but God?"

When you turn to literature for references to humility, there is an

abundance of them. "Nothing is more scandalous," says Marcus Aurelius, 'than a man that is proud of his humility." "Life is a long lesson in humility," says Sir J. M. Barrie. "Humility is the foundation of all virtues," says Confucius, the Chinese sage. Bunyan, in Pilgrim's Progress, puts it thus: "He that is down need fear no fall, he that is low, no pride." "Humility, that low, sweet root, from which all heav-enly virtues shoot," says Thomas Moore. "Humility is a virtue all preach, none practice, and yet everybody is content to hear," says the wise John Selden. Suprgeon, the celebrated English preacher, says, "Humility is to have a just idea of yourself." Two old proverbs run: "Better eat humble pie than no pie at all," and, "The meekness of Moses is better than the strength of Samson."

ALL this is not much in accord with the modern way of looking at things. Our slogan is, advertise, advertise. He that doth not toot his own horn, shall not hear it tooted at all. One might almost say, that the present day beatitude is, "Blessed are the brazen, for they shall inherit the earth. And yet at bottom, we know that it is not so. The great are humble today, just as they have ever been.

One day a man was looking for Daniel Webster. Webster was at that time secretary of state, under President Tyler. A small river lay in the stranger's path. "Ho, there," said he to a rough looking man, in high boots, "I will give you what it is worth to carry me over the river." The rough looking fellow agreed, and it was Webster himself. One day some Englishmen were being shown through the White House in the days of President Lincoln. Accidentally, so the story goes, they came upon the President blacking his boots. The visitors excused themselves as best they could, one of them muttering something about the fact that in England the rulers do not black their own boots. "Don't they?" said Mr. Lincoln, "then whose boots do they black?"

Of late I've been reading "Watchers of the Sky," the tale of the great astronomers, and how they made one discovery after another, that changed the science of astronomy, and opened up the universe of the heavens. These men, as "Watchers of the Sky" shows them, are the most unpretentious and humble of men. They could not be more so. Doubtless their studies of the vast universes above and about us

UMILITY has been thought of so had humbled them, with the thought much, that there are many prov- of the smallness of our own little planerbs on it, in almost all languag- et. There are some great pictures here. Naturally, the most famous are There is Copernicus, who is dying. He those found in the Bible: "Better it is has written a book, and he resolves he to be in an humble spirit with the will not die until it has come from the lowly, than to divide the spoil with the printer's. The church has pronounced proud." "A man's pride shall bring against his theory (that the earth him low; but honor shall uphold the moves around the sun, instead of the humble in spirit." "By humility and the sun moving around the earth), and fear of the Lord, are riches, honor and Copernicus, without rebellion or hatlife." "Whosoever therefore shall hum- red, accepts the criticism of the church, ble himself as this little child, the same but holds to the truth of his discovery. is great in the kingdom of heaven." The book is placed in his hands and "For whosoever exalteth himself shall with a prayer of thanksgiving for the goodness of God he passes away. self shall be exalted." "God resisteth Tycho Brahe, the great Danish astronthe proud, but giveth grace to the humomer, has the same attitude. Though ble." "He hath he is deprived of his living by a "He hath he is deprived of his living by a showed thee, O thoughtless king, and must leave for man, what is other parts, he continues his making good; and what of the charts of the heavens, and passes on the torch of truth to young Kepler. It is a great story, and it is to do justly, love a story of suffering, humility. These mercy and walk men had brains, yet in their attitude humbly with thy they were more modest than ordinary

> WITH literary men it has often been the same. While a writer appears now and again who is on the lookout for favorable comment on his books, the big fellows have always been of a quiet and retiring sort. The fact is, they have to be. So do great scientists. To be humble is the only way to learn. You have to look at nature and submit to her, and ask her questions, and wait for an answer. You cannot browbeat her, or frighten her into doing your will. I like that saying of Huxley, "Science seems to me to teach in the highest and strongest manner the great truth which is embodied in the Christian conception of entire consecration to the will of God. Sit down before a fact as a little child, be prepared to give up every preconceived notion, follow humbly wherever and to whatever abysses nature leads you, or you shall learn nothing."

> THIS is the secret of the amazing influence of such men as Francis of Assisi, Xavier and Livingstone. They were willing to give up home, civilizaton, not to go to some other continent and make a fortune, but to go there to take the gospel of good will, peace, healing and cheer. Such names will never die. The picture of Livingstone kneeling by his pallet in Africa, dead, will never fade out, so long as the Christian church exists. Such men unquestionably have what we are talking about-humility. Probably Paul's definition of it has never been surpassed not to think more highly of yourself than you ought to. Humility is to see ourselves as we really are. And that, as every one knows, is not easy. The world does honor humble people. History honors them. And, above all, we know that the Master of men honors

The most striking and amazing example of this virtue is our Lord Himself. When He came to earth, He filled men with the belief that he was the promised Messiah. And Messiah, as all the Jews believed, was to rule the nations. He would assert his authority, humble all other peoples, and make the chosen people the chief nation of the earth. He did the exact opposite of all this. He deliberately chose the path of dishonor, shame, suffering, the cross, and death.

SUNDAY SCHOOL LESSON FOR JANUARY 14.

SUBJECT:-Jesus teaching humility. LESSON:—Luke 14.
GOLDEN TEXT:—God resisteth the proud, but giveth grace to the humble, I Pet. 5:5.

The Cross-Cut

(Continued from page 49).

Yes, two at a time."

"All right!" The sheriff turned to trip and hurry for the Ohadi road. young 'un off?" Fairchild and Miss Richmond will wait for the second and go to Sheriff Mas- ute start on us. Do you think-? on's office and tell him what's up. Meet us there," he said to Fairchild, as he strong. They can handle him alone." went forward. Already the hoist was working; from far above came the from the two searchers. Two more grinding of the wheels on rails as the went by. The sheriff rose from his skip was lowered. A wave of the hand, then Bardwell and Harry entered the looked out at the night, a driving, aimbig, steel receptacle. At the wall the less thing in the clutch of a blizzard. greasy workman pulled three times on the electric signal; a moment more and the skip with its two occupants had passed out of sight.

A long wait followed while Fairchild strove to talk of many things-and failed in all of them. Things were happening too swiftly for them to be put into crisp sentences by a man whose thoughts were muddled by the fact that beside him waited a girl in a whipcord riding suit—the same girl who had leaped from an automobile on the Denver highway and-

It crystallized things for him mo-

'I'm going to ask you something after a while-something that I've wondered and wondered about. I know it wasn't anything-but-"

She laughed up at him.

"It did look terrible, didn't it?"

"Well, it wouldn't have been so mysterious if you hadn't hurried away so quick. And then-"

"You really didn't think I was the Smelter bandit, did you?" the laugh still was on her lips. Fairchild scratched his head.

"Darned if I know what I thought.

And I don't know what I think yet." "But you've managed to live through

it, haven't you?" "Yes-but-

She touched his arm and put on a scowl. .

"It's very, very awful!" came in a low, mock-awed voice. "But-" then the laugh came again-"maybe if you are good and-well, maybe I'll tell you after a while."

"Honest?"

the skip?"

minutes they waited, while the great steel carrier made the trip to the surface with Harry and Sheriff Bardwell,

The journey was made in darknessdarkness which Fairchild longed to turn to his advantage, darkness which say something after that, but it wasn't seemed to call to him to throw his much use. The first thing we knew arms about the girl at his side, to crush her to him, to seek out with an is now-took him over to the mortuary. instinct that needed no guiding light the laughing, pretty lips which had is there?" caused him many a day of happiness, many a day of worried wonderment. He strove to talk away the desirebut the grinding wheels in the narrow shaft denied that. His fingers twitched, his arms trembled as he sought to been sending all the income from stock hold back the muscles, then, yielding sales to him for deposit. If Maurice to the impulse, he started-

"Da-a-a-gone it!"

"What's the matter?"

"Nothing."

But Fairchild wasn't telling the truth. They had reached the light just at the wrong, wrong moment. Out of the skip he lifted her, then inquired the way to the sheriff's office of this, a new county. The direction was given. and they went there. They told their story. The big-shouldered, heavily mustached man at the desk grinned cheerily.

City. Can you send us up in the skip?" heard in forty moons," he announced. "Lalways did hate that fellow. You say Bardwell and your partner went "You and I'll go on the first out on the Ohadi road to head the

"Yes. They had about a fifteen-min-

"We'll wait here. They're hefty and

But an hour passed without word chair, stamped about the room, and

"Hope they ain't lost," came at last. "Hadn't we better-?"

But a noise from without cut off the conversation. Stamping feet sounded on the steps, the knob turned, and Sheriff Bardwell, snow-white, entered, shaking himself like a great dog, as he sought to rid himself of the effects of the blizzard.

"Hello, Mason," came curtly.

"Hello, Bardwell, what'd you find?" The sheriff of Clear Creek county glanced toward Anita Richmond and was silent. The girl leaped to her feet.

"Don't be afraid to talk on my account," she begged. "Where's Harry? Is he all right? Did he come back with you?"

"Yes-he's back."

Bardwell was silent again, biting at the end of his mustache. Then he squared himself.

"No matter how much a person dislikes another one-it's, it's-always a came at last. Anita came shock,"

"You mean that he's dead?"

The sheriff nodded, and Fairchild came suddenly to his feet. Anita's face had grown suddenly old-the oldness that precedes the youth of great relief.

"I'm sorry-for any one who must die," came finally. "But perhaps-perhaps it was better. Where was he?"

"About a mile out. He must have rushed his horse too hard. The sweat was frozen all over it-nobody can push a beast like that through these drifts and keep it alive."

"He didn't know much about riding." "I should say not. Didn't know much of anything when we got to him. He "Of course I'm honest! Isn't that was just about gone-tried to stagger to his feet when we came up, but he Fairchild walked to the shaft. But couldn't make it. Kind of acted like the skip was not in sight. A long ten he'd lost his senses through fear or exposure or something. Asked me who I was, and I said Bardwell. Seemed to be tickled to hear my name-but he then came lumbering down again, called it Barnham. Then he got up on Fairchild stepped in and lifted Anita to his hands and knees and clutched at me and asked me if I'd drawn out all the money and had it safe. Just to humor him, I said I had. He tried to he'd passed out. That's where Harry There isn't anybody named Barnham,

"Barnham?" The name had awakened recollections for Fairchild; "why he's the fellow that-"

But Anita cut in.

"He's a lawyer in Denver. They've asked if he'd gotten the money out, it must mean that they meant to run with all the proceeds. We'll have to telephone Denver."

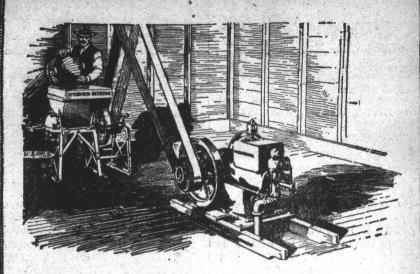
"Providing the line's working." Bardwell stared at the other sheriff. "Is it?" "Yes-to Denver."

(Concluded next week).

Says Sam: The fellow who can do the most for you is the fellow you see when you shave.

deerily.

A scrub bull on a good farm is like an ink-spot on an otherwise cleanly written page.



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terial. Price 12c.
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New Declaration of Independence

HE farm women of the state of Nebraska have issued a "Declaration of Independence," demanding a power washing machine for every tractor bought for the farm, a bathtub for every binder, running water in the kitchen for every riding-plow, an oil stove for every motor truck, a fireless cooker for every mowing machine, and a share of the farm income (if there

New machinery has come to the farm out of necessity. With the growing shortage of farm labor, both for farm and home; with one-third of the population of the country feeding not only themselves, but the other twothirds, the farm is the place where mechanical aid is needed on the farm and in the home.

There are correspondingly fewer women in the farm homes today. The daughters are going to school, the unmarried sister who used to be a boon to busy farm mothers is a much-occupied business woman in town, and the hired girl in the country is almost extinct. You can't expect a girl to work in a house where she has to carry water from a well and wash milk pails and stoke a wood stove, when she can get almost any wages she wants in the neighborhood of steam heat and mov-

By W. G. Earle

not just because her lot has been cast in the country, but because she believes the advantages of the country far outweigh those of the city as a place to live. Sometimes she gets overtired and discouraged and wants to leave the farm. Sometimes her health breaks down and the family have to move to town-and pay doctor bills for years. Her husband knows just one trade or profession-farming-so he hires out as a common laborer; he does wide acres and herds again. Having to buy every scrap of food and fuel is a new practice after coming from the abundance of home-grown things on the farm, and the man's wages are not large and evaporate very easily. So the ex-farm family find themselves scrimping along on the edge of poverty, and they cannot give the children the chance they want them to have.

to give mother the little necessities of labor-saving devices which not only comfortably. make life worth-while, but conserves The farmer's wife does this herself, paid out as doctor bills and sacrificed farm in adopting improved devices.

income and happiness, because he was forced to move to town and become a ditch-digger in his prime?

These recurring tragedies may be averted. Hired help is out of the question. A man on a farm cannot give much help around the house because he already has more than he can do outside. The only solution is mechanical equipment that will save and take over the heavier manual labor of housework.

Farm women agree that the country is the best place in the world to live and the only place to bring up chilnot like it a little bit; he longs for the dren, and that home-making is the happiest profession for a woman, that in no other place has she such a scope for her head and her heart and her hands and all the executive and administrative ability she can cultivate.

But if the possibilities of the farm home and country life, and the profession of home-making and motherhood are to be all that is claimed for them, it must be put within the strength and All of which is the result of failing ability of the average farm woman to do the work of her home happily and

After all, perhaps the Nebraska the life of the mother. Would it not women have given the farm women of have been better had this father put other states a good suggestion. Cerinto improved labor-saving devices for tainly they demand only justice, nameies and water-power washing machines. the farm home, that which he later ly, that the home keep pace with the

Care of the Home Meat Supply

(Continued from last week). Third Prize.

Mrs. F. K., New Lothrop, Michigan. Home-made Bacon.

After pork is cold, lay it on the table, skin side down, and rub into the fleshy parts a generous supply of brown

For 100 pounds put two pounds of good coarse barrel salt in an iron frying pan over a hot fire and stir constantly until it will hiss when a drop of water touches it.

Just before removing from the stove stir in two ounces of pulverized saltpeter. Spread this over the meat, while hot, with a large spoon and let remain for three days, then wipe dry and smoke immediately.

Hasty Mincemeat.

Two teacups cold meat (either roast or boiled beef) chopped; three teacups of apples; one teacup of sugar; half teacup of molasses; pinch of soda; half cup of prune or other fruit juice (any kind); half teacup cold coffee; half lemon (in place of vinegar); one pound seeded raisins; two tablespoons currant or grape jelly; two teaspoons of cinnamon; half teaspoon of clover and nutmeg; salt and pepper to taste. Mix well. It will make three pies.

Mincemeat Without Apples.

Slice and pare a pumpkin. Put it through a food chopper with a medium cutter, not too fine. Pour over it weak vinegar. Let set over night. Put on the stove and let it come to a boil. Drain it, and proceed exactly as if it were apple. After you have the mincemeat all mixed, boil all together until the pumpkin is soft, using great care not to cook a minute too long, else it will be mushy. A critic cannot tell that apples were not used.

Fourth Prize

Mrs. D. R. W., Rochester, Michigan. When butchering there is so much fresh meat, I fry a ham and a shoul-

der. Cut up in slices, salt and pepper to taste, cook as if to use on table only put with sausage meat. Give the bones inch thick, set away in a cool place. to the chickens and get more eggs.

Mincemeat.

One quart of meat beef; half pint of suet; two quarts of apples; one cup of vinegar; one cup of molasses; one quart of fruit juice (cherry is good); one heaping teaspoon of cloves; one breaping teaspoon of cinnamon; one heaping teaspoon of allspice; salt and sweeten to suit taste. Put in a little water to cook, half package of currants and half package of raisins. Cook until done. It will make about three and one-half quarts to make it moist.

Australian Fur has never been so pop ular as it is right now and it is most effective in sand-colored tones, especially when fox fur of the same color is used for trimming. Good Sausage.

Twenty-seven and one-half pounds of not quite so hard. The water must be meat, two-thirds lean and one-third fat; all cooked out of meat. Pack in crocks half pound salt; three ounces of good and when crock is full put a plate on black pepper; half teaspoon red peptop, smaller than crock. I put the ba- per; two tablespoons of sage; half cup con strips in with the ham and smoke of cornmeal; three-fourths cup flour; when hams are smoked. Cut all the mix thoroughly. Pack in pans, cover meat from the head that can be and top with melted lard about a quarter-

> Fifth Prize. Mrs. D. R., Conway, Michigan. Best-ever Mincemeat.

Many people don't like mincemeat. I never liked it until I made some like this and I have had several people say they never ate such good mince pies before. Here it is. You can use beef, chicken or tame rabbit, or wild meat of any kind. I used for mine, four wild rabbits; three quarts of peeled apples; one quart of pitted cherries; one pint of seeded grapes; one pound of seedless raisins; one pound of suet; two tablespoons of cinnamon; one teaspoon each of cloves, allspice and nutmeg; one tablespoon of salt; two quarts of sugar. First I cook the meat until it can be easily picked off the bone, and then grind it through the food chopper. Next I add my can of cherries; chop apples quite fine, and add; then grapes, raisins, spice, sugar, salt and suet; the suet should be chopped fine or run through food chopper.

This will keep a long time for pies if kept cold. It can be canned by packing in cans cold, and cooked in steamer for three and one-half hours. It does not have to be cooked first for pies.

Every busy wife and mother should arrange to see a model house and learn how, to conserve her strength and energy.

Samantha says: Homes where the womenfolks sing as they work have riches which neither wind, rain, nor bad markets can wipe out.

Making Pin Money at Home

By the Prize Winners

week demonstrate to a good advantage that the housewives are ever on the alert to make both ends meet and to have these ends overlapas far as possible. The problem of making pin money appears to have when the duties of caring for a large family demand much time and atten-

Many letters were received that contained profitable suggestions for replenishing the family purse, but space will permit only the five prize winners to appear here. Some told about the money earned by raising poultry, but that can hardly be considered as pin money. It should more appropriately be placed among profits of other farm produce and shared with friend husband. Not a few told about their methods of economizing and saving in the home. The old adage, "A penny saved, a penny earned," is quite suited here. The returns of economy and frugality are really "long distance wages."

The replies to the contest have become so numerous each week that I have had to push other work aside in order to take care of them. So it has been deemed advisable to get someone else to look after this part of the work. Henceforth address your letters to Martha Cole. I believe you can rely on her to pass fair judgment in each case. She will also help you solve any of your home problems and answer with a personal reply any question you send her. I trust you will like her and show her the splendid cooperation you have shown me.

And now, Martha, you may have the chair.-Household Editor.

First Prize.

Mrs. N. D., Mt. Clemens, Michigan. Many farm women have large, oldfashioned houses with more room than buy seed only every other year. I sold they need. I, for one, am so situated, and last summer turned this extra last summer and had all I could use room into pin money. I rented the rooms for light housekeeping to a mother and her children from the city during the summer. By entering an ad. in a Detroit paper the last part of June, I received several replies. I rented the two rooms furnished as sleeping room and kitchen. Rent, milk, eggs, broilers and vegetables came to about \$80 after expenses were paid. People coming from the city come more to enjoy the out-of-doors than beautiful rooms. They only ask for rooms to be clean and comfortable and not elaborately furnished.

Second Prize.

Mrs. A. S., Hermansville, Michigan. My pin money comes to me from raising Scotch Collie puppies. I have so much work to do, both in the house and field, that I have very little spare time. There is no work at all in this "side line," as my puppies have the run of the farm and are usually sold before they are three months old. I feed them stale bread, boiled potatoes, skim-milk and all the table scraps. In return they give me a fair profit to help fill the family purse.

Third Prize.

Mrs. B. T., Brown City, Michigan.

vogue, I bought some yarn and cro- you are eating. cheted them. I could buy the yarn for The crocheted sweaters make up very thickens .- Mrs. F. L.

HE results of the contest this quickly, and thus the more gain for me.

Fourth Prize.

Mrs. H. B. W., Coloma, Michigan.

I live on a farm and would like to tell others how I make my pin money. During the winter time I make cottage been successfully solved by some, even cheese and sell it to our near town grocery and meat market. Besides I have all the customers I can furnish directly from my home. I charge ten cents per pound and make a supply once a week.

Fifth Prize.

Mrs. W. P. O., Charlotte, Michigan.

I raise about one-fourth of an acre of flowers and sell the cut flowers. In the spring I raise a good many aster, pansy and salvia plants to sell, and get my seed from a seed company. In the fall I save my own seed and sell some to friends, and thus it is necessary to

How I Make My Rugs

T is during the long winter evenings that the housewife plans and makes the small rugs to replace those worn out during the past year. There are numerous methods and interesting color schemes to be worked out.

We will give an aluminum preserving kettle for the best letter telling your method, color combination and means of dying material for home-made rugs. The second prize will be an aluminum frying-pan, while third, fourth and fifth prizes will be aluminum sauce pans.

Address all letters to Martha Cole, Michigan Farmer, Detroit, Mich., before January 19.

about forty dollars worth of flowers for myself and friends. I took some flowers to the fair and got a number of premiums on them.

A TIMELY SUGGESTION.

OOL nights suggest more bed covers. Old comforters can often be made to do double service by doing a little extra work on them. When the top is much worn, but the lining is in a good state of preservation, a new top can be pieced from extra pieces that we have laid by, either in a design or crazy work. Carefully launder the old comforter than tie on the top. Be sure to have the border come well over the edge of the old lining and whip down carefully. Old comforters too much worn to be used as covers can be made into very good mattress pads. Ten yards of outing will make the top and bottom, tied in the usual way. Much worn blankets used in the place of batten in making new comforters are very good .- Mrs. H. E. K., Emmet County.

HOUSEHOLD SERVICE.

SAW a request for French mustard dressing, such as we buy. Here is I believe I have found a very efficient one I have used a long time. It makes way for making pin money. With the a little more than can be bought for little slip-over sweaters so much in ten cents, and you are sure of what

Stir one tablespoon of granulated about two dollars and could sell them sugar with three level tablespoons of readily for four dollars. Later I found dry mustard. Then stir in with the that people wanted collars and cuffs dry mustard one egg until it is all for them so I made them some pretty smooth. Then add a few drops at a ones of linen, organdy and leather and time, one teacup of good cider vinegar. sold them generally with the sweaters. Cook this in a double boiler until it



OF QUALITY

Lily White

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A GOOD RECIPE FOR ENGLISH TEA BISCUITS
4 cups Lily White flour, 4 level teaspoons baking powder, 1 teaspoon salt, 2 tablespoons butter or fat, 1 cup of milk. Boil and mash potatoes, having them free from lumps. Sift the flour, salt and baking powder, add potatoes and rub in fat or butter. Mix to a light dough with egg and milk; roll out a little thinner than ordinary biscuits and bake in hot oven Serve hot. Use potatoes while warm A GOOD RECIPE FOR

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For three generations Lily White has been "the flour the best cooks use." It continues popular because its quality always has been maintained.

For baking good-to-eat, wholesome breads Lily White has never been surpassed. This is because the wheat is selected and every step of the milling process is made for the purpose of producing breads you will like. But you will never appreciate Lily White to the fullest extent until you have experienced the pleasure of baking with it.

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We cannot over-emphasize the importance of clean flour. Dirt is not good to eat. It destroys flavor, and also it prevents the best baking. The wheat from which Lily White is milled is cleaned, washed and scoured eight times. It is milled until the granulation is uniform and perfect. And throughout the entire process it is kept absolutely clean.

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Our Boys' and Girls' Department

Does the Boy Own His Calf?

For Young Folks and Their Parents to Read

and state shows. Boys and girls are showmen.

boys and girls. For they know they have achieved something well worth while, the thing they have been work-



Maurice Stead, Howard Bryant, Leonard Hoerner, of St. Johns, Winners at State Apple Show.

ing for all year, or in some cases for girls about show time. Certainly such two and three years. On the other a practice is not fair, either to his own hand, we often find the parents watch- children, the other boys and girls in ing from the side lines, very proud indeed of the young people who are taking the game of life and farm in a ser- are glad to say that such instances ious way. Perhaps in their boy and are few. girlhood days such things as young people's clubs were unknown.

ership. No boy can get a real thrill be appreciated as a gift.

N EVER before have we seen such out of winning a contest unless he splendid calf club shows as have owns the calf that is making the recbeen offered recently at the county ord. He can't take father's or the neighbor's calf, fit it up, and win wholenot only making a name in the club heartedly. Yet this is what we find classes, but are stepping right into the some boys and girls trying to do. Duropen classes and holding their own ing the past few weeks at various with the experienced breeders and shows we have talked with a large number of boys and girls in the calf Such are proud moments for the club barns. In most cases the calf club work is a complete reality to the young people. They own their calves and have registration papers made out in their own names to prove it, and this is how it should be. How sorry we feel for the little fellow who says, "It's Dad's, but I call it mine, and I get the money for showing."

What a contrast that statement is to the boys who says, "You bet it's mine. I bought it last March and gave my note at the bank."

The first boy has never known the joy of ownership. Nothing but disappointment can await him when the calf goes back into the herd and his money, if he won any, is spent. We can't see where he has gotten any help from such work either. It usually turns out that the winner is Dad, because he has a heifer well raised which he proudly displays to his friends or sells at a profit. But where does Johnnie come in?

Once in a while we meet a father who seems to think it's all right to divide up his calves among his boys and the ring, or himself. Enough could not be said against such a practice, but we

Let your boy own his calf, not only in name but in fact. See that the reg-There is one feeling which a boy or istration papers are made out in his girl loves even more than winning a name. On the other hand, the boy contest, and this is the sense of own- should pay for this ealf. It will not

not the time to answer them. I presume you have seen my pictures.

Dear Uncle Frank:

I have written you before, but my letter must have found the waste paper basket, as I did not see it in print. I hope this one will be interesting enough to reach the "Letter Box." I enjoy reading the boys' and girls' letters so much and only wish you had

room to print more.

I live on a ten-acre fruit farm but wish I could live on a larger one. What fun it must be to live on a farm with cows and horses, sheep and pigs.
I live but a few minutes' walk from

Lake Michigan and love to go in swimming in the summer and climbing over the ice in winter. My brother and I have a small black dog that loves to go with us, and he sure looks black and small among the mountains of ice.

I think this is getting too long so will close, with a Happy New Year to

guess it is time I quit this and go too.—
A niece, Lola Court, Allen Mich., R. 1.
I appreciate very much your writing me on Christmas Day. Often letters have to go unanswered because I have to go unanswered because I have eleven sisters and two brothness than I have eleven sisters and two brothness.

ers. One brother is in Chicago, and the other one is in Ann Arbor at the hospital.—Another nephew, Francis Panttila, Kaleva, Mich., R. 1.

I used to like the same kind of books when I was thirteen. You have many more sisters than I had; I didn't have

Dear Uncle Frank:

Merry Christmas and a Happy New

What did you get for Christmas? I got a No. 2 Kewpie camera, four books, and other things.

I have three cats. I am going to take the cats and my sister Edith's picture with my camera.

I have been trapping this fall and winter. I have made over \$50 worth of furs so far. I have caught thirtyone muskrats and one mink. I hope to get a skunk in the morning. I tracked



Part of the 670 Boys and Girls who Won Free Trips to the International Live Stock Show Last Month.

you all.—Faith H. Goodell, St. Joseph, him into a hole. I like hunting and trapping. I have a rifle.

I too, wish I had room to print more Well, I believe it is bedtime so will

I, too, wish I had room to print more I, too, wish I had room to print more of the nice letters I receive. I used to live next to old Lake Michigan and have to stop. I am a boy, thirteen years old, and in seventh grade at school.—Your unknown nephew, Leonard Garhave experienced the fun you have. I lick, Willis, Mich., R. 1. of the nice letters I receive. I used to like the meaning of your first name.

Dear Uncle Frank:

I am writing you for my third time and I am a Ball. So it is three times and out, as you know when you play

This is the first Read-and-Win Contest I ever tried to write, but it was

very easy.

One of the questions, "Who bought a forty-acre farm for \$160?" My father knows the man very well; he has grown thousands of bushels of potatoes which he sold at the same market

that Mr. Petifor did. Well, I must say good-bye.—Arthur Ball, DeWitt, Mich.

In baseball it is also four balls and take your base. So, you really had another chance coming.

Dear Uncle Frank:

May a lonely little city girl join your circle? I sincerely hope I may.

I am sixteen years old, have bobbed hair and am not very pretty. Will that do for a description of myself?

I have often read the cheery letters from your other nieces and nephews and so hoped that I could be one of and so hoped that I could be one of

them. Well, as my letter is getting rather lengthy, I will bring it to a close.—I am your loving niece, Phoebe A. Belanger, Gladstone, Mich., Box 804.

You certainly are welcome. Judging from your description of yourself, I believe you are modest. That's a good trait to have.

The most appreciated thing I got for Christmas was the many good wishes from pals. I would be glad to receive a picture of your sister and the cats. Come again, Leonard.

Dear Uncle Frank:

How are you? Did you have a happy Xmas? I wonder if Santa Claus brought you many toys,

I was going to send you a Christmas letter, but I kept putting it off, and it isn't written yet, you see. So that proves the famous old saying that you should never put off anything that you can do today until tomorrow

Ha! Ha! I've got it all mixed up. Well, I'm sending my five resolutions in. I think they're pretty good, but I don't think I'll win, because of my writing. I always had trouble with my writing, anyway. I wish I could improve

Well, I'll say good-bye now, and a Happy New Year's Day. (You see, I can't wish you a happy Xmas, so I wish you a Happy New Year.—Susie Lurty, Fair Haven, Mich.

You bet I had a nice Christmas but I did not get any toys, although I think some boys should have gotten me a rattle to play with.

TO BE OR NOT TO BE.

I'd rather be a Could Be
If I could not be an Are;
For a Could Be is a Maybe, With a chance of touching par.

Dear Uncle Frank:

This is my first letter. I hope nobody will make fun of it.

I live on a farm. For pets I have two tame rabbits and three cats. I am

With a chance of touching par.

I'd rather be a Has Been

Then a Might Have Been by far;

For a Might Have Been has never been,

But a Has was once an Are.

Our Letter Box

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

Dear Uncle Frank:

Dear Uncle Frank:

Here I am knocking again at the door of this "Merry Circle." Please move over and make room for another cousin. I wrote a letter a long time ago but it landed in that horrid "Waste Paper Basket." But "if at first you don't succeed, try and try again," is my motto, and I think it is a pretty good one, don't you Uncle Frank?

I guess I had better tell you what I look like: I weigh 119 pounds and am five feet two and one-half inches high. I have light blue eyes and medium brown hair. Of course, I've got freckles on my nose and am dreadful tanned, but I can't help that. Hope I'm accepted as a cousin.

accepted as a cousin.
I go to school every day and like it

very much. I am in the eighth grade and hope to pass the examination. If I do its high school next year if noth-

ing happens. Will close close for this time.—Grace Rinard, Mesick, Mich.

You're accepted and welcome. That waste basket is a horrid place, isn't it?

Dear Uncle Frank:

May I join your happy circle of nephews and nieces? I have written four letters to you before but have never seen one published yet. But this time I hope to be more successful.

time I hope to be more successful.

Would you like to hear about my pets? I have seven of the prettiest everyone else has gone to bed, so I

doves you ever say. I suppose you will wonder where and how I got them. I suppose you Well, we have a number of dove-nests in the barn. I watch them and just as soon as the eggs are hatched I pick out the prettiest ones and feed them myself. It does seem cruel but they don't seem to mind it for when they become about two months old they fly on my shoulder and even eat out of my hand.—Your nephew, Donald Saw-er, Ada, Mich., R. 1.

You are to be congratulated on your persistency. It's a good thing to have. Your dove pets must be interesting.

I have just walked in once more, you see, but I just can't keep out. I had to come this time to find my letter. I wrote the last time and as I didn't see it or an answer to either one, that or your photo either. But I guess I won't cry over spilled milk, as they

Dear Uncle Frank, I do hope you had a nice time today, and I expect you did as this is Xmas. I wish you a very happy New Year.

My brother, and also father, are in Battle Creek, so you see mother and I are the chore boys, if so we might be

JAN. 13, 1923.

Some Prize Poetry

By Michigan Boys and Girls

A THOUGHT.

Wishing star that shines tonight, Do not smile at me, book you toward some lovely child, Who in the dark may be.

Bluebird, sing not at my door,
But be you swiftly flown,
To where perhaps some little child
In silence sits alone.

Roadside berries, red in June, Change your place to grow, For fear some lonely little child May empty-handed go. By Miss Hulda A. Schafer, Hopkins, Michigan.

THE TEACHERS.

Tell me not in mournful numbers Latin's but an easy dream.

For the pupil is lost that slumbers

As verbs are not what they seem.

School is real, teachers earnest; And play is not their rule. Fun thou art, to fun returnest Is not spoken of their school.

Not enjoyment, only sorrow Is their destined end or way. But they work that each tomorrow Finds us further than today.

Exams are long and time is fleeting. Teachers all are strict and brave, While our loyal hearts are beating Our funeral marches to the grave.

In Literature's broad field of battle, In the terrible Latin scramble, We are dumb, like driven cattle, And all we do is, Ramble! Ramble!

Trust no teacher, however pleasant, Exams they'll bring before they leave.

Work-Work in the living present, For when they come your heart'll

The teachers all can well remind us Of the chemistry equation.

For the test will come before vacation.

Notebook, that today to me, look Terrible, another time, this same Forlorn and shipwrecked book Seeing, may take heart again.

By Helen M. Finkler, Coopersville, Michigan, R. 2.

DISHES.

When the evening meal is o'er, And locked and bolted every door, Comes the time of which I dread; Oft I wish I were in bed.

For stacked upon the table low A thousand dishes in a row, Stacked till they almost reach the sky, And most of them smeared with sticky pie.

The muffin pans all crusted with dough Stand in a helpless and straggly row. And I must scrape till I get them clean, No wonder the muffin pans think I'm mean.

In the morning mother says with a sigh,

I almost could cry.

"There's muffin in every crack and crease

And the frying pan's literally cover
"Twould be a sure cure for the blues.

And the frying pan's literally covered with grease.

"The spoons are filthy with dirt and

Then at nine I go to bed, Holding the morning dishes in dread. With three cheers for Uncle Frank.

By Florence Louise Dunn, Elwell, —By Rex Ellis, Reed City, Mich., R. 2. Michigan, R. 1.

DEAR UNCLE FRANK.

While looking at the pictures
That the lads and lasses drew,
I tried my very hardest
To decide which looked like you.

One shows the marks of intellect, The other a vacant stare.

In one you are dressed like a hayseed With beard enough, and to spare.

You can not look like all of these.

Some certainly must be fakers. I think they got you muddled up With Uncle Hy and Al. Acres.

I don't pretend to be a judge In this conglomeration,
But if any one is Uncle Frank
They are surely no relation.

By Paul Dewent, Hudsonville, Michigan, R. 1.

LONESOMENESS.

When I am lonesome I like to write, And when I am so I write half the night. It seems as if my heart would break, In the night when I lay awake. I'm lonesome, lonesome, all the while, As lonesome as on the banks of the

It matters not what sport I try, I'm as lonesome as the wind that pass-

School Contest

S CHOOL activities are amogn the great interests of most all young folks. Some like school; others don't. Many think they could get more good out of school if it were run differently. I would like your ideas about school, so this week the contest will be on What is the Matter with School? Please tell me in 200 words or less, just what you think about school; whether you like it or not. The ten best papers will get the usual prizes pencil boxes, clutch pencils and maps, and all good papers will be netitled to a Merry Circle button.

Send your letter to Uncle Frank, Michigan Farmer, Detroit, Michigan.

And just because I'm so young is the reason why I'm as lonesome as the wind that pass-

-By a Lonesome Girl.

THE MICHIGAN FARMER.

Oh, here's to the Michigan Farmer, The paper we hold so dear. With all it's fun and humor, it comes, Fifty-two times in a year.

We take the Michigan Farmer, And we take the Breeders' Gazette, But of all the Michigan papers we take, I haven't got tired of it yet.

Now, take, for instance, "Al Acres,"
That's written by Frank R. Leet,
Or "Hy Syckle," funny anecdotes,
I'll tell you, they're hard to beat.

I always read the story now, By Courtney Ryley Cooper, And the way it ended up today, It's going to be a "hooper."

"Florence, look at these muffin pans," There's "Our Boys' and Girls' Depart

So it's "hat's off" to the Michigan Farmer, But it's the editors we'll have to

the dishes right. Do I have to thank, heg,"
And it's now, I think, we'll start the New Year,

With three cheers for Uncle Frank.

THE poems above are the first six prize winners. The writers of the first two get Michigan Farmer pencil boxes, the next three nickled pocket In one you are young, in another old.

In some you are in between,

While in one you are stout and pussy,
In the other you are rather lean.

Pencils and the last a Michigan Farmor map of the world and new Europe.

We do not have space to run all ten
prize poems, so are appending here pencils and the last a Michigan Farmprize poems, so are appending here the names of the other four winners:

Goldie Kleinhart, Detroit, Michigan. Worth Taylor, Vermontville, Michi-

Michigan Farmer Club List

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EXPLANATION:—Figures in the first column represent the regular prices of other publications.

The figures in the second column give our prices for subscriptions to the Michigan Farmer and the other publications for one year.

The figures in the third column give the prices at which other publications can be added, if more than one is wanted in combination with Michigan Farmer.

EXAMPLE:—We will send the Michigan Farmer and Detroit Free Press each one year for only \$4.50. If the same party wishes the McCall's Magazine, it will cost 60c extra, or \$5.10 for this combination.

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"Late in October, our 15 old hens were not laying at all. I started giving them Don Sung, and for ten days they still didn't lay. But on the eleventh day, they laid 13 eggs, and it is wonderful what Don Sung has done for our egg basket through the fall, winter and spring. There never was another tonic like Don Sung."—Miss Dama Wright, Veronia, Ore.

A \$1 package of Don Sung lasts 15 hens 90 days. The extra eggs for just a few days paid Miss Wright for her Don Sung.

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Give Don Sung to 15 hens. Then watch results for 30 days. If it doesn't show you a big increase in eggs, if it doesn't pay for itself and pay you a good profit besides, tell us and your money will be promptly refunded.

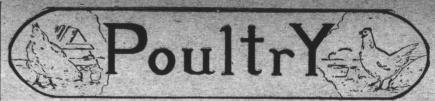
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SMALL FRUIT AND POULTRY.

RED raspberries furnish a dense the hens have plenty of sour milk. Shade on the poultry range where The scratch grain should alway furnish a hiding place when hawks apbe taken by young chickens. Blackpecked. They do not make as good stores or elevators. shade as raspberries. Currants and gooseberries will usually be all picked WILL SELL "APPROVED" CHICKS. off while still very small and green.

In small poultry yards plums seem

oats and beef scrap. The amount of meat scrap can be reduced one-half if

The scratch grain should always be young stock are growing. They also fed in litter to induce exercise. One of the best ways to stop feather eating pear. The berries are borne high is to turn the flock out on range where enough in the foliage so that few will they will hunt and scratch and forget each other. If you have no time to berries are borne out where the poul- mix mashes it will pay to use the comtry can see them and will often be mercial mashes generally sold by feed

In small poultry yards plums seem A T a recent meeting the Michigan to be the most satisfactory tree fruit. A Bay Chick Association decided to Select varieties that grow near to the change the term used in connection ground and prune them so the lower with the certified flocks from which limbs will remain for shade. Growing they get their eggs. Instead of using



The Farm of E. E. Wang, Van Buren County, is Ideal for Poultry Raising.

enough to injure the fruit seriously but word "approved." they will pick up curculio and other insects that may injure the fruit.

Peach trees need a lot of cultivation and spraying and are not as good as plums in the poultry yards. Apples grow slowly and when mature they may be too large for small yards. They need a lot of spraying and trees too near poultry houses cannot be sprayed thoroughly without spotting up the houses with the spray dope. A large apple orchard in sod is a fine range for poultry as it will furnish both shade and green food and be a little less windy than an open field range.

The combination of fruit and poultry cannot be made on a large scale unless there is plenty of labor available. Both are jobs for specialists when carried on intensively. But a small amount of fruit on the poultry farm proves good for the poultry and may prove a profitable sideline if properly managed.-Kirby.

TURKEY'S HEAD SWELLS.

Our turkeys have the swelled head. It begins between the bill and the eye and swells slowly and turns bluish. We had an old turkey which has had it ever since May; it is getting worse and the young turkeys are also getting it.-R. B.

The swelling on the turkey's head should be opened and drained and the wound washed with a disinfectant. Treatment in such cases is similar to roup in chickens. Rubbing the bird's head with camphorated vaseline may help to reduce the swelling and assist in healing.

FEATHER-EATING HABIT.

My poultry pick the feathers off one another, and they don't do well. I feed corn once a day and wheat once a day. Some of the hens lose control of their legs and in time get scan't walk, and then die.—T. S.

Hens eat feathers because of a lack of something in their ration which they crave and it is also due to idleness and a lack of exercise while in winter quarters. The leg weakness is prob-

poultry will not fly into the trees the word-"certified" they will use the

As this is the first year that the members of this association have made an effort to put a better grade of chickens on the market, they have decided it would be better not to call their products "state certified" until the Michigan Agricultural College could furnish the necessary inspectors and culling experts to do the work.

Each flock owner and hatcher has culled his own birds this year on the 120-egg minimum basis. The college has one man now in the field checking up on this work and "approving" the flocks which meet this standard.

Hatching from eggs which come from hens having a 120-egg per year average, will do much to increase the production of the farm flocks throughout the state, as the average state production, according to Prof. E. C. Foreman, is now only between sixty and seventy eggs per year.

HOUSE FOR 500 HENS.

Will you please give me full dimensions of a coop that would be convenient for 500 hens, also the size of the park?—C. D. H.

A house twenty feet deep and 100 feet long will give you a floor area of 2,000 square feet. That will give four square feet for each of the 500 hens. You do not state the breed of hens. The heavier breeds require a little more room than Leghorns but four square feet per bird is generally considered about right by practical poultrymen.

If you build a shed-roof house you can have it four feet high in the rear and eight feet in front. A half span house can be four feet in the rear, six in front and eight or nine at the highest point. I believe a house 100 feet. long should be divided into fiv tions, each twenty feet wide. These sectional dvisions can be boarded from floor to roof to stop draughts. The entire house can be open in summer if the birds range in one flock. In the winter the house will be warmer and more free from draughts if the doors from one section to another are all closed.

The M. A. C. Experiment Station, ably due to errors in feeding. A bal- East Lansing, are sending out plans of anced mash should be used. It can a laying-house which they recommend consist of equal parts by weight of highly and you might write them for a bran, middlings, ground corn, ground copy. You can also obtain valuable

for 500 hens.

RAISING PEKIN DUCKS.

At what temperature should an in cubator be for hatching duck eggs? Is there any profit in raising thorough-bred White Pekin ducks? How often should ducks be fed and what kind of

One hundred and two degrees is the temperature recommended for duck eggs in an incubator. The White Pekin ducks are very popular and considered one of the most profitable breeds. How ever, duck raising requires some skill hens; eight pounds for cockerels, and and plenty of feed and the amount of profit in any individual case cannot be estimated.

A good ration for laying ducks consists of equal parts bran and corn meal to which is added twenty per cent low grade flour. Then add about one-quarter green food and ten per cent beef scrap with a sprinkling of oyster shells and grit. During the laying season the ducks might be given three feeds a day, while at other seasons two feeds would be sufficient. The manner of feeding will depend somewhat on If ducks have water and marsh land great deal of their feed at certain sea-

AVIAN TUBERCULOSIS.

Quite a number of our hens have Quite a number of our hens have died during the summer. They grow very thin and poor, some are lame at first. I cut two of them open and found the livers spotted. Is it tuberculosis Is there anything I can do to protect the flock, except killing the sick hens Is there any danger in eating hens from the same flock who seem well?—M. P.

The symptoms indicate tuberculosis in the flock. It will be best to kill and burn all sick birds as the disease may spread rapidly. Hens from the same flock that are in good healthy condition are undoubtedly fit for food. This can be definitely determined by examining the condition of the internal or-

When a small flock is suffering constant losses from tuberculosis it is usually best to kill them all. Those that are all right can be used for meat. Then a new start can be made after cleaned and disinfected. If the flock is large and valuable I think it pays to consult a veterinarian and have him make a personal inspection and then make recommendations.

There is no cure for avian tuberculosis and it must be controlled by prevention and sanitation.

BREED COMPARISONS.

How do Plymouth Rocks, Wyandottes and Orpingtons compare as layers for the entire year? Is there any difference other than color between different kinds of the same breed? For instance, are the Silver Laced Wyandottes as good, or better, than the White Wyandottes? Does either one of these breeds bear confinement better than the others? What are the standard weights for these breeds? Is there another breed you would consider better than either of these to keep in town? If so, why?—H. A. H.

layers for the entire year. All of the simple colds before they reach the roup breeds mentioned are considered good stage. winter layers under the proper management. Trapnest records and laying house cause roup. Isolate the sick contests prove that it is the quality of birds. Remove as much of the accum; the individual birds within a breed ulations in the nostrils as possible. rather than the breed, that may deter- Rub the head of the sick hen with mine whether a hen is a good layer camphorated vaseline. A coal tar disor not.

plumage of a hen influences the egg with most roup cures depends on treatproduction or the flavor and quality of ing the bird with a cold and curing the the meat. Of course, hens with black cold before the devitalized condition of feathers do not usually look quite as the hen makes a cure impossible.

pointers by visiting with poultrymen nice dressed for market as a white who have good houses. I should want feathered bird. Whether Silver Laced about four or five acres for a range Wyandottes are as good or better than White Wyandottes would probably depend on the care and culling and skillful breeding that were given the individual flocks in question.

I do not think any one of the breeds mentioned would bear confinement better than the others. Again, the success with either breed on a limited area would depend more on the system of management than the name of the breed.

Plymouth Rocks have a standard weight of nine and one-half pounds for cocks; seven and one-half pounds for six pounds for pullets.

Wyandottes have a standard weight of eight and one-half pounds for cocks; six and one-half pounds for hens; seven and one-half pounds for cockerels, and five and one-half pounds for the pullets.

Orpingtons have a standard weight of ten pounds for cocks; eight pounds for hens; eight and one-half pounds for cockerels, and seven pounds for the

Some like Rhode Island Reds or Leghorns better than the above mentioned the size of the range and its condition. breeds. Others like the Rocks, Wyandottes or Orpingtons best. I have nevon which to graze they will gather a er been able to find proof that any special breed is superior for a town flock. The quality of the individuals is more important that the breed. The heavier breeds are easier to confine and keep out of neighbors' gardens than the lighter breeds.

COLD IN EYES.

My chickens have a disease which causes their eyes to swell when cold weather comes and will stay by them until spring. Their eyes get so sore that a foamy pus comes in the eye. It is hard for them to see. I never saw any pullets with it.—A. A. B.

The chickens have colds which may be caused by damp or dusty litter, exposure to dampness and cold, or lack of a balanced ration. Lice and mites devitalize hens and make them more susceptible to colds. Colds spread rapidly through a flock by means of the drinking water. Color the water with potassium permanganate as a preventive. Give the sick birds individual treatment. Remove the mucus from the nostrils with tissue paper. Rub the the premises have been thoroughly nostrils and head of each sick bird with camphorated vaseline. Hens that recover may be all right for a long time but sometimes chronic colds of long standing are difficult to cure and such hens may develop roup. By using clean litter and a dry poultry house try and keep the flock as vigorous as possible. Then there will be less trouble from the colds and the prevention is more satisfactory than the cure.

HENS WITH ROUP.

I wish to know what disease my hens have. Their head swells all around the eyes until the eyes are closed entirely. Pretty soon they die. Will you give a remedy? It seems to attack healthy remedy? It seems to attack healthy hens. They have their mouths open and can hardly breathe.—J. E. C.

The symptoms indicate severe cases of roup. It will probably be best to kill the hens in the worst condition. It may pay to treat the others. Roup should It is difficult to compare Plymouth be controlled by prevention, which Rocks, Wyandottes and Orpingtons as means preventing colds or curing any

Dampness or draughts in the poultry infectant is useful in treating, and es-I do not believe that the color of the pecially preventing roup. The success



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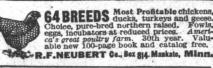
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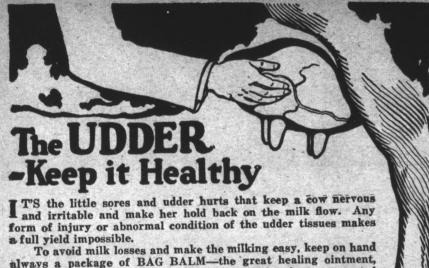
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Additional Poultry Ads. on Page 63



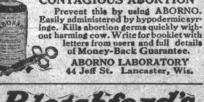
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association in America. Hoyt D. Shis- you blame him? ler, who operates the Babcock tester work. Here is what he said:

The association has had a successful Agent Taylor, if was possible to put clear prout of \$145. the work across in a strong way. The for the full year.

TILL going it strong"—that is the ened when only twenty-two months latest report from the man in old. A thousand dollars looks mighty charge of the oldest cow-testing small to "Doc" compared to her. Can

Alfred Nelson's herd is the highest and advises the members of this testing herd in the association. It con-Newaygo Association about feeding, sists of three registered Jerseys and has just given us some interesting three grades. He has an average of items regarding the past season's 5,816 pounds of milk and 312 pounds of fat.

Herman Zerlant's cow No. 2 might year. The first three months were dis- be considered the most profitable cow, heartening, but through the untiring returning \$2.79 for every dollar spent. efforts and cooperation of County But "Old Millie" is high cow, making a

Raymond Kempf spent \$102.90 for records are from twenty-one carefully feed on "No. 2," the second best cow in managed and well-fed herds, compris- the association. This was the highest ing a total of 205 cows, which have run feed bill for any one cow. His whole herd brought in the largest gross in-The highest honors from the associ- come, or \$1,960.81, carrying a profit of



Here is the World's Record Grade Cow. She Produced 20,932 Pounds of Milk and 1,022 Pounds of Butter in One Year.

ation goes to Raymond Kempf, of Fre- \$881.57. Hermon Zerlaut's herd yielded Holsteins. Mr. Kempf has justly which he has a profit of \$916.87. earned all the praise that can be given tion; has used great care in selecting was \$7,325.96. the sires and the dams of his cows to be. He, also, is a very careful feeder, and his cows are never in the want of attention. For this he gets in return an average of 12,404 pounds of milk, return of \$1.79 for every dollar expended for feed, and he spent \$960.81.

high cow in this association. At the readers. age of twelve making 549.7 pounds of him \$224.55 worth of butter-fat and showing excessive nervousness or fear. only charged him \$84.66. Kind old stingy at that age. .

mont, and his herd of eleven registered a gross income of \$1,833.12, out of

The total income from 136 cows was to him. He has earned it because he \$15,415.96, or an average of \$113.35 per has given time and study to the big cow. The profit above feed cost was game, "Dairying." He has always been \$53.87 per cow. The profit included a member of the cow-testing associa- in the gross income of the members

BREAKING HEIFERS TO MILK.

A BOUT a month ago I got hold of a "long" two-year-old Durham heifer. 416.3 pounds of butter-fat, or 520.3. She had never been handled, not even pounds of butter, and has an average tied in a stable since she was a calf, and consequently was as wild as a hawk. About two weeks ago she came The high cow awards are again given fresh, and now I am milking and handto "Old Millie," the grade Guernsey ling her as nicely as any old cow I (fifty per cent Durham and fifty per have. My method of handling her, cent Guernsey), who has stood the which is my usual way, may be of intest, and for the fourth time been the terest if not of help to some of your

The first night we had her, it took butter-fat, which is more than she ever my father and I a long time to drive gave before. She is under the tutor- her into the barn, and still longer to ship of Herman Zerlaut, her owner, get her into a stanchion. Then we bewho has been like a daddy to her. He gan feeding and petting and fussing gave her the best of grain, and milked with her, so that by the time she freshher with a milking machine. She gave ened we could handle her without her

When I began milking her I fastened thing, isn't she? And twelve years her legs, using a "rig" I have used old, too. Most always they get pretty nearly ever since I began farming. I take a quarter strap from a single har-We hope to give all the credit due ness, putting a snap in where it fastto Fairy Maid's Golden. She is a two- ens to the breeching ring, buckling it year-old heifer owned by the Black & back with an ordinary "joint" bridle bit Neiusma Stock Farm. This heifer has in the loop, made by this buckling. The made 463.7 pounds of fat in nine holes in the strap enable me to adjust months at a cost of \$47.20. She fresh the strap as to length, as is required

the snap end I put it around the left properly held to keep them clean. hind leg, just above the gambrel joint, rather slowly for a few times.

from the floor. It is very easily and comfortably. quickly applied and can in no way closely to the heifer's right flank there ing cows clean during the winter is little or no chance of their hurting months. I know of nothing equal to me; in fact, the only danger is of their barn-stored, or well-stacked, straw. I falling over on me in case they try to bed my cows well, but I do not overkick, and that danger is negligible. The bed them. Too much straw in the gutstray, including snap and bit, should ters is nearly as bad as not enough. be from thirty to thirty-six inches long, the smaller or "meaner" the cow the twice daily. I practice cleaning my shorter. A snap with the tongue brok- stable morning and evening. By so en out, leaving a hook, works as well doing, I materially increase my maas a perfect snap and is a little easier nurial output, besides keeps my stable to fasten and unfasten.

County.

PRODUCTION.

I F one cannot get thirty cents per bushel for his potatoes right on the farm, he can get this sum by feeding them to good cows while butter-fat is around fifty cents per pound, is the BELOW are given price quotations around fifty cents per pound, is the assertion of A. R. Sattler, secretary of December 30, reported from bids, of-

best spuds we ever raised on our farm," Trade. The demand is active for good said Mr. Sattler. "The present price stock, one car of Holstein grades avwould net us about eighteen cents per eraging \$112; 1 car Guernsey grades bushel, and as it is worth ten cents per averaged \$110@120 per head. Market bushel to haul them to the warehouse, shows an advance in Holstein grades we concluded to feed them. We fed of \$1@5 per head. about a half bushel a day to each milk Holstein Pure-bred.—Springing cows, cow. The third feed we noticed the good breeding, at \$180@300; A. R. O. difference in the milk and in ten days breeding, \$206@500; special bred A. R. the production of milk increased fifty O. cows, \$500; heifer calves, \$55@200; per cent.

"We sliced the potatoes raw and fed six months to one year, \$210 and up. with salt. I believe potatoes cooked Holstein Grades.-Backward springing 250 bushels a month and will feed yearlings, \$55@64; calves \$31@55. all of them unless we can get forty

CREAMERIES PRODUCE 60.000,000 POUNDS OF BUTTER IN 1922.

ing its claim to be a dairy state, months to one year, \$200 and up. as an estimate of the butter production in 1922 exceeds any previous year, ers, \$110@130; thin and backward, the figures reaching 60,000,000 pounds. \$100@110; two-year-old springers, \$75 the figures reaching 60,000,000 pounds. In 1919 the Wolverine state produced about 45,207,000 pounds of butter; in 1920, 45,404,000 pounds, while in 1920 the production of the creameries jumped to 55,011,000 pounds. The estimate of the last year indicate about 5,000, Cows \$500 and mur. bred two-year-old springers, \$75 prospetity all around, good neighbors, excellent markets, convenient transportation; 40 acres near live R. R. town; 30 cres heavy cropping fields. 10-cow stream-watered pasture, acres apple orchard, variety other fruit; good, easily kept, 2-story, 8-room house, and breeding \$200@350; A. R. O. stream-watered pasture, acres apple orchard, variety other fruit; good, easily kept, 2-story, 8-room house, and breeding \$200@350; A. R. O. stream-watered pasture, acres apple orchard, variety other fruit; good, easily kept, 2-story, 8-room house, and the detail of the complete of the fruit; good, easily kept, 2-story, 8-room house, and the detail of the complete of the com about 45,207,000 pounds of butter; in bred yearlings, \$35@75; calves \$15@35. for the last year indicate about 5,000, O. cows, \$500 and up; bred two-year 000 pounds increase over 1921.-M.

KEEPING COWS CLEAN IN WINTER.

I do not have a great deal of trouble lings, \$35@75; calves, \$15@35.

by the size and degree of "meanness" swinging stanchions, allowing three feet four inches to each animal. I like To apply I put the heifer in a the swinging stanchions as they give stanchel. Then taking the strap by the cows plenty of liberty, yet they are

To keep cows clean during the winfrom behind forward, on the outside, ter while confined to the stable, each slip the snap through the ring of the cow must fit her stall, that is, the platbit which is fast in the strap; then form upon which she stands must be crossing the strap so as to bring the adjusted to the length of the cow so snap again from the rear to the front the droppings will fall into the gutter. on the outside of the right leg, I snap If the platform is a little too short, the it into the free ring of the bit. Then cow will stand in the gutter and, when pushing the right leg back as far as it feeding, will step upon the platform will go, I sit down and begin milking, and keep it dirty. On the other hand, avoiding all roughness and milking if the platform is a little too long, she will drop her manure on the edge of This "rig" when properly applied the gutter and become soiled while makes a modified "handcuff tie" and lying down. The platform on which not only prevents kicking, but also the cows stand should be the proper raising a foot over three or four inches length so that the cows may stand

I consider the use of plenty of dry injure the heifer. By standing very absorbent an essential factor in keep

Stables should be cleaned at least in a wholesome, sanitary condition. I have used this method a great num- With liquid-tight gutters behind the ber of times, and it has always been cows I am able to conserve all the successful.—C. A. Wagner, Calhoun liquid manure from my stable. During winter dry straw takes up all this liquid manure and I find it an easy matter POTATOES AS COW FEED DOUBLE to get it upon the land .- Leo C. Reynolds.

QUOTATIONS ON PURE-BRED DAIRY CATTLE.

the Lake Ann Cooperative Association. fers and sales in Waukesha county, We have about 2,200 bushels of the Wisconsin, by the Pure-bred Board of

yearling bulls, \$75@200; special bred

and mixed with grain will net thirty ers, \$65@115; thin and backward, \$62 cents per bushel right on the farm with @102; two-year-old springers, \$78@ butter-fat at fifty cents. We are feed- 136; bred yearlings, \$63@111; unbred

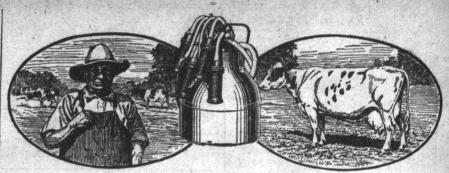
Guernsey Pure-bred .-- Springing cows cents per bushel, net, later on."-Mills. of good breeding, \$200@350; A. R. O. breeding, \$250@500; special bred A. R. O. cows, \$500 and up; bred two-yearolds, \$175@400; yearling heifers, \$125 @250; heifer calves, \$100@150; year-M ICHIGAN is gradually strengthen- ling bulls, \$75@200; special bred, six

olds, \$175@400; yearling heifers, \$125 GOOD HOME 40 acres, Allen County 3 room house small stables, never-failing well, on good auto road, Near town. School house on land. Price \$3,400; months to one year, \$200 and up.

Jersey Grades.-Backward spring-I STABLE my cows the year around; ers, \$75@110; thin and backward, \$100 that is, I stable them at night dur- @110; two-year-old springers, \$60@75; ing the summer, the same as in winter. bred yearlings, \$60@100; unbred year-

with unclean cows, and I ascribe this brown Swiss Pure-bred.—Springing to my well arranged stable and the use cows, good breeding, \$177@300; A. R. of plenty of dry straw as an absorbent. O. breeding, \$205@500; bred two-year-and price write owner.

My cow stable has a cement floor olds, \$150@300; yearling heifers, \$77@ with an eight by eighteen inch gutter 205; heifer calves, \$50@150; yearling behind the cows. I tie my cows with bulls, \$75@200.



These Three made a World's Record

Mr. R. R. Stevens, of Bowman-ville, Ont., with the assistance of a De Laval Milker, just recently made a world's record with his purebred Holstein cow Orndyke Pietertje Korndyke, who produced 1,122.5 lbs. of butter and 24,119 lbs. of milk in 805 days. During the entire period she was milked with a De Laval Milker. Mr. Stevens says:
"While Orndyke is a wonderful

animal and would make a splendid showing by hand milking, I can truthfully assert that the use of the De Laval Milker throughout this test has made it possible for her to show this wonderful production. I have been using the De Laval Milker exclusively for two years."

Mr. Stevens also has other champions in his remarkable herd, most notable of which are Ormsby Jane, junior two-year-old milk champion of Canada, and Jane DeKol of Glen Rae, senior two-year-old milk champion of Canada, both of which have never been milked in any other way but with a De Laval Milker. Mr. Stevens says:

"I am very proud and naturally much gratified over my success in producing these champion animals, but it is only right that I should give the De Laval Milking Machine its full dues as the most important agency in the develop-ment of these records. These facts are all beyond question and should settle the matter conclusively for those intelligent dairymen who are asking the question as to whether the De Laval Milking Machine will pay them."

Thousands of De Laval Milker users in all parts of the country and with all breeds of dairy cattle will subscribe to Mr. Stevens' statements, many of whom have also made splendid records.

You may not be interested in making production records but you certainly want to get the most milk from your cows, in the clean-est condition, at the least expense, and you can do this with a De Laval better than in any other way. Sold on easy terms so that it will pay for itself while you are using it.

Send for complete information

The De Laval Separator Company NEW YORK CHICAGO SAN FRANCISCO 29 E. Madison St. 61 Beale St.



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MILTON S. HOPKINS, Coopersville, Mich.

Guernsey Grades.—Backward spring- \$1000 Secures Equipped Farm A Good Ho e; Handy Detroit

For Sale 122 A. Best of Soil All in high state of cultivation, good building, 40 rod to sohool. 3 miles to Lansing finest location on good gravel road, 3 milk routes, mail route. \$150 per acre if sold soon. S. W. HEMPY, R.7. Lansing, Mich.

For Sale Three farms 40, 80, and 120 acres, good soil town.

FLOYD E. LOTT, Howell, Mich.

FOR SALE In the South, 210 acres rich land, 150 acres improved, strated on Jackson Highway main thoroughfare of the South, 85 miles from Government Dam at Muscle Shoals, 2 miles from Summertown on L. & N. Railway, Excellent water, fine climate, no posts. Only 355 per acre, terms. Address. CHAS. McPHERSON, R. 2, Crestview, Tenn.

FOR SALE at a bargain 115 A, land in the famous lime land or alfalfa land of Ala. This land is in trade for small farm in Northern Ohio. Northern Indiana or Southern Michigan. will pay difference in cash up to \$6000 value. Price \$40 per acre address . H. S. ALBIN, Lexington, Teen

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Another crop of caives. Choice bull calves \$75, their breeding and records will please you.

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FOR SALE Reg. Guernsey bull 12 mo., one 10 mo., old, 3 bull calves.

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All ages. from high-producing dams. Also a few registered and high-grade Holstein cows at farmers' prices. Pedigrees and prices upon request. A clean herd under Federal supervision. WHITNEY FARMS, Whitney, Mich

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Nine months old bull, whose seven nearest dams average 27.72. This is the last of my nineteen of this age. The others are all sold.

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FOR SAIE Registered Holstein bull ready for service from good

\$50 a year gets daughter of Hazelilet Idleaze. His two nearest dams average 36 lbs. butter 586 lb. milk 7 days. age 48 months. Herd Federatested.

M. L. Mollaulin, Redford, Mich.

REGISTERED HOLSTEINS Young Bulls that will please you in breeding, individuality and price. Some of them are very desirable for heading pure bred herds. Federally accredited I. M. SHORMAN, Fowlerville, Mich

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

HOLSTEIN bull calf, big stocky, dam by Pontiac Korndyke Lad, stred by a 30 lb, bull, \$40. Satisfac tion or money back. B. E. KIES, Hillsdale, Mich

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

FOR SALE: Jersey bulls ready cows Register of Merit. Accredited herd.
SMITH AND PARKER, R. 4, Howell. Mich.

Lillie Farmstead Jerseys For sale, 3 heifers bred to freshen this fall, 2 bull calves, 6 to 2 mo. old, Colon C. Lillie, Coopersville, Mich Registered Jersey cattle young bulls, for sale. Herdlaccredited J. L. CARTER, Lake Odessa, Mich.

JERSEYS Reg. young bulls and heifers. Majesty and Owl Interest strains.
PARK LAKE FARM. Clarkston, Mich.

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For Sale at Farmer's prices.
5 yearling bulls 8 yearling heifers
10 of the above sired by our \$5200 Repeater bull.
We have others not related. This is an opportunity to start in good stock at a moderate price.

ALLEN BROS. 616 So. West St.,

For Sale Hereford cows and heifers bred to and young bulls by Woodford 100th, LEARNED & SON, Hamilton, Ind.

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5.2 and 3 year old registered Polled heifers, with heifer calves by side, price \$150 to \$175 each Also 2 bull calves born in April, price \$75 each COLE & GARDNER Hudson, Mich.

Public Auction Jan. 23, 1923

3 miles east of Lennon, 2 miles north and 2 miles west of Swartz Creek or 9 miles west of Flint on Lennon road.

5 Polled Shorthorn cows and heifers; 5 Shorthorn cows and heifer and 1 Shorthorn bull. O. I. C. Hogs, 6 tried sows, 3 bred gilts, 3 open gilts, 6 fall sows and 6 fall boars.

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Milking Shorthorns priced reasonably. An accredited herd selected for beef and milk. Beland and Beland. Tecumseh, Michigan

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Polled Shorthorn Cows & Heifers in calf and calf by side. Also a few young bulls. Herd headed by Victor Sultan and Royal Non-pareil.

pareil.

We can please you in richly bred cattle with quality at farmers' prices.

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Special offer on several bulls at Farmers' prices. Suitable for grading up purposes where beef is required. Also several high class herd headers of the best of breeding.

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Central Mich. Shorthorn Breeders' Assn offer for sale both milk and beef breeding, all ages Write M. E. MILLER, Sec'y, Greenville, Mich.

Milking Shorthorns Bull calves for sale. Also 2 cows. ROSEMARY FARMS, Williamston, Mich

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

Shorthorn Bull for sale, white first prize winner, by Imported Sire, J. A. BARNUM, Union City, Mich.

Shorthorn Bull calf. Pure Scotch, and extra one. Ready for service. Photo F FRANK H. RUSSELL, Wakeman, G

HOGS

Are You Short of Capital? Do you prefer extra shires to scrubs? It so buy of Talcoa Farm and pay with hogs. Spring boar of Royal Charmer. 10th and Matchless Lee 8th breeding. Fall pigs for spring delivery. Best of blood lines and conformation. TALCOA FARM, R. 7, Lansing, Mich.

Duroc Fall Yearling

and spring boars. Some real herd prospects sired by O. O. K. Col. 2nd. All Col. of Sangamo and Diamod Joe. Priced to sell. Fall pigs either sex. Write for description and prices. W. C. TAYLOR, Milan, Mich.

A Page for Live Stock Men

News Gleaned by Field Editor P. P. Pope

THE MONSTER.

A LONG about chore time the other evening I dropped in at the home of F. W. Alexander, of Vassar, to see "The Monster." Mr. and Mrs. Alexander had just returned from a trip to town but in their friendly manner made me more than welcome.

We went out to the boar pen to see "The Monster," and that is just what greet us in the same good natured kindly manner as did his keeper.

We went out to the new and modern tile floors overlaid with a thin coat of could study it with profit.

good dinner which the little lady of the house presented, played no small part in the pleasure of my visit.

A GOOD KICK-OFF.

OVER on the Midland side of the county line a few miles north of St. Louis lies the pleasant home and productive farm of Souley Brothers. Upon the shoulders of these young lads we saw. He is rightly named. A long, fell the burden of responsibility, which tall, high-backed, good-footed, big-bon- is inseparable from the operation of a ed, yearling came up to the fence to goodly farm, when their father was called across the great divide some time ago.

That they are making good not only hog house which is built on the Iowa as farmers, but as live stock breeders sunlit style, with roof windows, hollow and as business men, was ably demonstrated at their first stock sale recently concrete, and built the long way north held at the farm. They are to be comand south. Those who are contemplat- mended upon the sportsmanlike way ing the building of a new hog house in which they conducted the event from first to last. Not a by bid, no bluster, Here we saw some great brood sows, not one bit of complaint. They sold representatives of Iowa's best herds, around a dozen young Shorthorns at



Grand Champion Hereford Male and Female at the Recent Royal Live Stock Show at Kansas City.

which will be held on the Alexander the future. farm on March 8.

WITH DORIS HOVER.

sleepeth. At least that is the impression it gives to the casual visitor. But it is surrounded by a farming section that is very much alive. After followmiles northeast, we came upon a prosperous looking farmstead, where we arrived just in time to help Doris Hover and his visitors crate a big lusty spring boar and load him on the runningboard.

We spent an hour looking over the excellent herd of pure-bred Poland Chinas that under the skillful management of Mr. Hover, has gradually replaced the herds of market stock. Mr. Hover may well feel proud of his acgood care. He has spared neither pains nor money in securing top notch herd sires, the latest acquisition being a hampion, "Foxy Clansman." He drove out for our inspection as fine a bunch of big tried brood sows as we have seen in many a day, a dozen or more of them, and among a very attractive lot of spring gilts are several outstanding individuals of strictly up-to-date type

Mr. Hover possesses both the qualities of a good feeder and a good breeder, which is a winning combination, and within the brick walls of his commodious home is the right sort of backing. You see, I happened around on a bitter cold day and just before dinner time, and the warm reception and the

and a choice lot of The Monster's prices that seemed a bit low, but that daughters. Mr. Alexander is joining would surely bring satisfaction to the with a neighbor, F. L. Bodimer, who buyers, and a creditable lot of thirty gets his mail at Reese, and whose herd odd Poland Chinas. The boys are young is built up along the same blood lines, in the business but they are in it to for a real Chester White hog sale stay and you will hear more of them in

LAMB MARKET UNSETTLED.

A KRON is a little town over in the A manifest in the lamb market re-Thumb district. It is not dead, but cently. Receipts are light while the consumptive demand has been fairly satisfactory. On the other hand, trade scouts report that a liberal run for January is on the horizon. In the reing a zig zag course for three or four cent government's estimate of lambs on feed, an unusual percentage expressed an intention to market during January. It is known that many heavy lambs were placed on feed and since heavy fat lambs are being discriminated against, an early movement to market is logical. Colorado, which has an unusually large number on feed is already beginning to top out. These conditions may cause some setback in values in the next month or six weeks although higher prices later in the wincomplishments. He not only has some ter are altogether likely. The enthusimighty good stock but he gives them asm of feeders has received a decided check recently and the number of thin lambs going out from the twelve leading markets has declined more than winner of first in class at the State fifty per cent in the last month and is Fair, and a son of Feldkamp's grand only one-fifth of the volume at the season's high point.

> Seven members of the National Association of Wool Manufacturers, composing the joint committee on research and standardization, visited the bureau of agricultural economics a few days ago, and after discussing the bureau's standardization program, unqualifiedly endorsed the proposed wool grades.

> The folks of America are now using more butter than when prices were higher. In 1921 the per capita consumption was 16.1 pounds as compared with 14.7 pounds for the previous year, or an increase of nearly ten per cent.

WASHTENAW BREEDERS SELL HOLSTEINS.

THE recent fifth annual consignment sale of eighty-three registered Holsteins of the Washtenaw county Holstein breeders, which was held at Ann Arbor Fair Grounds, was largely attended. The cattle sold were consigned from seventeen different breeders. The largest consignment was made by W. B. Hatch, of Ypsilanti, Michigan, who sold twenty-one females and ten males, practically dispersing

The highest priced female sold was Huron Hill Pontiac Johanna, a twentysix pound cow, consigned by A. A. Snyder. of Belleville, Michigan, sold for \$270. The highest priced male sold was a calf, One Prince Pieter, who has a twenty-pound two-year-old dam, Tula Segis Pieter, and his sire is King Ona Champion, was consigned by R. B. Waltrous, "Friesland Farm," Chelsea, Michigan, and sold to Robert Garrod, of Milan, Michigan, for \$175. The average price per head was about \$100. A great many buyers were present, but not outside state buyers. The forenoon was taken up in selling males, those of serviceable age brought a fair price while the younger ones sold for less. The females were sold in the afternoon, which included a number of calves and yearlings and which accounts for the low average. The sale was under the management of Colonel Perry, of Columbus, Ohio, and assisted by Colonel Schresder, of Saline, and R. Austin Backus, of Mexico, New York, pedigree reader.-I. D.

Veterinary.

CONDUCTED BY DR. W. C. FAIR.

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

Sore Teat—Infected Udder.—I have a cow that has a sore teat, and besides her milk is thick and stringy. V. J., Dorr, Mich.—Give her a dessertspoonful of nitrate of potash at a dose in feed twice daily for ten days. Apply one part fluid extract of poke and five parts wool-fat to infected quarter daily, not forgetting the benefit of gentle hand-rubbing, the teat canal may require dilating, this can be done with smooth dull-pointed probe.

Contagious Abortion.—I have an eight-year-old cow that slipped her calf eight-year-old cow that slipped her can last year about six weeks before she was due to freshen. This year she slipped her calf three weeks too early. This is a good cow and I would like to keep her. She has had good care and seems to be healthy. J. M. S., Gumfask, Mich.—Doubtless she will carry her rest calf. her next calf the full gestation period. Clean and disinfect your cow stable, and if she has any vaginal discharge flush her daily, using a one per cent lysol solution until discharge ceases, then bened here. then breed her.

Mechanical Lameness.—I have recently purchased a mare eight years old; she is stiff in one hind leg. Her stifle is enlarged but not inflamed; she also has bone spavin on same leg, but this has been killed. When standing in stable her heel is off the floor most of the time. I paid a low price for her believing she could be helped by treatment. What shall I apply? C. W., Brown City, Mich.—If you will apply one part iodine and ten parts fresh lard to bunch on stifle once daily it. Mechanical Lameness.-I have relard to bunch on stifle once daily it might help her. Her ailment is chronic, besides the lameness is mechanical.

Cow Fails to Come in Heat .- I have ten-year-old cow that freshened July 1, and since then has failed to come in heat. Is there any remedy? M. E. W., St. Clair, Mich.—Give her one dram of fluid extract of nux vomica and two drams of ground capsicum at a dose in ground grain three times a day. You might obtain better worlds. might obtain better results by giving Yohimbine; however, it is too expensive for cattle practice. If you have a fountain syringe, flush the vagina with warm water twice a day. This inexpensive treatment will have a good effect

Auction Sale

DUROC-JERSEY SWINE

40 Head of Bred Sows and Boars

Fair Grounds, Northville, Mich. ON

WEDNESDAY, JANUARY 24, 1923 12:30 P. M. Sharp

From The Herds of Thos. Underhill & Son. Salem, Mich.

> and Maple Hill Farms Farmington, Mich.

Lloyd Lovewell, Auctioneer

HOGS

BROOKWATER DUROC JERSEYS

Ready for Service Boars
Sired by Panama Special 55th and Big Bone Giant
Sensation. BROOKWATER FARM, H. W. Mumford, Owner, J. B. Andrews, Lessor.

Woodlawn Farm Duroc Hogs meet present day requirements, length, size and quality. Young stock for sale at reasonable prices and fully guaranteed. Write your wants.

DUROC-JERSEYS Choice fall pigs and sows bred for Mar, and April farrow, priced right.
RUSH BROS., Romeo, Mich

Duroc spring boars, gilts, summer and fall pigs for sale. Reasonable prices and satisfaction guaranteed. Jesse Bliss & Son, Henderson, Mich.

DUROC-JERSEYS Do you want a good Pathfinder boar pig E. D. HEYDENBERK, Wayland, Mich

DUROC-JERSEYS Spring Boars for sale.
CAREY U. EDMONDS, Hastings, Mich.

Durocs Prolific, big bone, best breeding. \$10 to \$15.
Write for description. Satisfaction or money back. B. E. KIES. Hillsdale, Mich.

BIG TYPE CHESTER WHITES

The prize winner kind from the best prize winner bloodlines. Early developers, ready for market at six months old. I have started more breeders on the road to success than any man living. I want to place one hog in each community to advertise my herd, Write for agency and my plan. G. S. BENJAMIN, R. F. D. 10, Portland, Mich.

Chesters We are sold out of Boars. Choice of spring pigs. For immediateshipment of spring pigs, write WEBER BROS. Royal Oak, Mich., 10 ml. and Ridge Rds., Phone 408.

CHESTER WHITES Boars all sold. Bred sow sale March 8th. FRED L. BODIMER, Reese, Mich.

Chester Whites. Choice spring gilts bred to Giant 2nd prize boar at State Fair. Also fall gilts LUCIAN HILL, Tekonsha, Mich

Registered O. I. C. Boars J. CARL JEWETT, Mason, Mich.

O. I. C. 50 last spring pigs either sex not free, % mile west of Depot. Citizs. Phone.
OTTO B. SCHULZE, Nashville, Mich.

O. I. C. & Chester White Swine strictly big grow large. A few spring pigs either sex. Newman's Stock Farm, R, 4, Marlette, Mich.

O. I. C's Spring pigs. Pairs not akin. Also July, August, and Sept. pigs. MILO H. PET. ERSON, Elmhurst Farm, Ionia, Mich. Citz Phone

O. I. C. 20 large growthy gilts farrow in Mar. also fall boar pigs.
CLOVER LEAF STOCK FARM, Monroe, Mich.

O. I. C. GILTS bred for April farrow at reasonable prices.
C. J. THOMPSON, Rockford, Mich. O. I. C's. 10 sows bred for early spring litters. 17 sows open for fall breeding 1-10 mo. old. Extra good boar. Stock shipped on approval. FRED W. KENNEDY, R. 2, Plymouth, Mich.

Registered O. I. C. Boars H. W. MANN, Dansville, Mich

O. I. C. Bred gilts and boars all sold, Am tak-ing orders for fall and spring pigs. A. J. BARKER & SON, Belmont, Mich

Spring Boars Now Ready To Ship H. O. SWARTZ. Schooleraft, Mich

L. T. Poland Chinas spring boars and somable prices, also fall pigs either sex of popular bloed lines. Aberdeen-Angus bulls, Hetters and Cows that are show winners. Write or come. E. A. CLARK. R. 3, St. Louis Mich.

Lone Maple Farm L. T. P. C. March Boars and gilts represented F. R. Davis & Son, R. 3. Belding, Mich.

Large Type Polands. Spring boars and gilts, sired by Michigan Liberator and Big Checkers. Immuned by double treatment. Also fall pigs bots scree. George F. Aldrich, R. 6, Ionia, Michigan-

LARGE TYPE P. C.

Largest in Mich. Pig ready to ship, why not order from the herd that has given so many their start in the hog business, the kind that makes good, they have quality as well as size.

W. E. LIVINGSTON, Parma, Mich.

LARGE TYPE POLANDCHINAS Boars and gilts for sale from one of the best herds in Mich. Sired by B's Clansman Mich. 1921 Grand Cham-pion. Alasha, M and W's Orange and Daddy Long Legs 2nd. Give us a visit and look them over if not write to N. F. BORNOR, Farma, Mich.

L. T. P. C.

Choice Gilts \$25 to \$40. Boars \$30. Fall Pigs \$15. HART AND CLINE, Address F. T. HART, St. Louis, Mich.

Francisco Farm Poland Chinas Spring gilts sired by a grandson of National Grand Champion Sow and bred to a grandson of National Grand Champion boar. Now ready to ship. P. P. POPE, Mt. Pleasant, Mich. Leonard's Big Type P. C. gilts sired by Leonard's Liberator and Orange Clansman and fall Pigs at bargain Prices. E. R. LEONARD, St. Louis, Mith

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

Large Type Poland Chinas Spring boars sired by Foxy Clansman 1922 Grand Champion and by F's Clansman 1920 Grand Champion Mich. State Fair. Also two choice 1921 fall boars. All immune by double treatment. Come and see them or write. A. A. FELDKAMP, Manchester, Mich,

Boars at Half Price From Mich Proneer herd of Big Type Poland Chinas We have been breeding them big for 30 years. Our hogs represent the blood lines of Giant Buster, The Clansman, Liberator, The Yankee, Big Bob, etc. Write for what you want.

JNO. C. BUTLER, Portland, Mich

Choice Boars ready for service. Priced to soll, Also sows and gilts.
O. E. GARNANT, Eaton Rapids, Mich

Additional Stock Ads. on Page 31

CLASSIFIED ADVERTISING

This classified advertising department is established for the convenience of Michigan farmers. Small advertisements bring best results under classified headings. Try it for want ads and for advertising miscellaneous articles for sale or exchange. Poultry advertising will be run in this department at classified rates, or in display columns at commercial rates.

Rates 8 cents a word, each insertion, on orders for less than four insertions; for four or more consecutive insertions 6 cents a word. Count as a word each abbreviation, initial or number. No display type or illustrations admitted. Remittances must accompany order.

Real estate and live stock advertising have separate departments and are not accepted as classified.

Minimum charge, 10 words.

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	Rates i	n Effect	October 7,	1922	5 -	6
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23	1.84	5.52	39	. 3.12	9.36	

Special Notice all advertising copy discontinuance orders or change of copy intended for the Classified Department must reach this office ten days in advance of publication date.

MISCELLANEOUS

SILVER FOXES. We are making very special prices on nineteen twenty-tree pups if bargained for now. Our stock is very best quality, all pedigreed and registered. Victory foxes are Good foxes. Buy now, pay later, save one-third. Volman & Hughes, Muskegon, Michigan.

HOMESPUN TOBACCO. Smoking—5 lbs., \$1.25: 10 lbs., \$2.00; 20 lbs., \$3.50. Chewing—5 lbs., \$1.75; 10 lbs., \$3.00. Furnish free recipe for proparing. Send no money. Pay when received. O'Connor Smokehouse, Mayfield, Ky.

HOMESPUN SMOKING TOBACCO. Mild and mel-low—10 lbs. \$1.75; 20 lbs. \$3.00; delivery guaranteed. We furnish free recipe for preparing. Smoking To-bacco Exchange, Sedalia, Kentucky.

HOMESPUN TOBACCO. Chewing: 5 pounds, \$1.75: 10 pounds, \$3: 20 pounds, \$5, Smoking: 5 pounds, \$1.25: 10 pounds \$2: 20 pounds, \$3.50. Send noney. pay when received. Co-Operative Tobacco Growers, Paducah, Kentucky.

NATURAL LEAF TOBACCO, Chewing: 5 Pounds, \$1.75; 10 pounds, \$3; 20 pounds, \$5. Smoking: 5 Pounds, \$1.25; 10 pounds, \$2. Pay wher received Tobacco Growers' Union, Paducah, Ky.

KENTUCKY TOBACCO Three year old leaf. Pay for tobacco and postage when received. Chewing 5 lbs. \$1.65; smoking 10 lbs. \$1.50. Farmers' Grange, D115, Hawesville, Ky.

INOCULATE your Alfalfa, Sweet Clover, Soy bean with best pure culture bacteria. Guaranteed. Bushel size postpaid 90c. E. E. Basil Sweet Clover Grower. Latty, Ohio.

FREE CATALOG Carpenter's Auction School. Largest in world. Terms. Opens soon. Tuition \$100. Hall Bldg., Kansas City, Missouri, and Atlanta, Georgia

GERMAN Shepherd Airedales, Collies; Old English Shepherd dogs; Pupples; 10c illustrated instructive list. W. R. Watson, Box 35, Macon, Mo.

FOR SALE—Registered American Bull Terriers and Collies—Hayneshurst Kennels, Jackson, Mich.

POULTRY

DON'T BUY CHICKS & HATCHING EGGS UNTIL you'get our catalog and prices on Barred Rocks, White Leg. Anconas. Write today. Discount on early or-ders. Model Poultry Farm & Hatchery, R. 4. Zee-land, Mich.

BUFF ORPINGTONS, Barred Rocks, Young White Leghorns, Guineas. Illustrations. Fenner Bailey, Montgomery, Mich.

BIG BLACK LANGSHANS, heavy laying strain, prizes won at MonroelCo poultry show ist pullet, let hen, lat and 2nd pen. A few pens and cockerels for saie. Write for prices. Mrs. Ethel Burget, May-

GET EVERGREEN POULTRY FARM'S cheap prices on pure bred poultry, chickens, turkeys, ducks, geese, guineas, baby chicks best laying strain. Illus-rated catalog free. Evergreen Poultry Farm Hatch-eries, Hampton, Iowa.

MANY VARIETIES pure bred poultry, baby chicks and pigeons at low prices. 100 page book in colors describes them. Mailed for 5 cents. Frank Foy. Box 9. Clinton, Iowa.

SILVER LACED and White Wyandotte Cockerels, \$3.00, two for \$5.00. Extra choice, \$5.00 each. Sat-isfaction Guaranteed, C. W. Browning, R. 2, Port-land, Mich.

MICHIGAN'S Best Giant Bronze. Large vigorous birds from America's best strains. Both utility and fancy Furnish unrelated stock. N. Evalyn Rams-dell, Ionia, Mich.

GIANT tBRONZE TURKEYS. Vigorous purebled stock. Best strains, large type, fine coloring. Unrelated stock. Write Mrs.Perry Stebbins, Saranac, Mich,

GEESE—Toulouse, African, Emden, DUCKS—Pekin, Rouen, Runner, Muscovey, Price reasonable. John Hass, Bettendorf, Iowa.

MAMMOTH Pekin Ducks, White Wyandotte Cockerls, \$2.00. Choice laying Leghorn Hens, \$1.50. Liberty Smith, Caro, Mich.

RHODE ISLAND REDS, R. C. Large fancy cocker-els and pullets at \$3 each. Burt Sisson, Imlay Oity, Mich.

68 VARIETIES Fine pure bred chickens, ducks, geese, turkeys, stock eggs, chicks. Large catalog 5c. A.A. ZIEMER, Austin, Minn.

SINGLE COMB Black Minorca Cockerels guaran-teed \$4-\$10. Chas. Schook, Allenton, Mich.

200 GIANT S.C. Black Minorca cockerels none better \$2.25 each. Mike Schaefer, R. 1, Essexville, Mich

BARRED ROCK Cockerels for sale. Henry Vickery. Fennville, Mich,

PEAFOWLS, Pheasants, Bantams, Pigeons, Guinea Pigs. John Hass, Bettendorf, Iowa.

BABY CHICKS

CHICKS GUARANTEED—From certified improved moneymakers. Flocks that are mated with Michigan Agricultural Collego cockerels, Barred Rocks, S. C. Anconas, White and Brown Leghorns, pullets and breeding cockerels. Safe arrival, postage paid, catalog free. Fairview Hatchery and Poultry Farms, Route 2, Zeeland, Mich.

CUSTOM HATCHING, four cents per egg. Ship us your eggs, chicks hatched and returned parcel post prepaid. Satisfactory hatch guaranteed. Now contracting space for spring hatching. Akron Hatchery, Akron, Mich.

QUALITY CHICKS AND EGGS—25,000 Standard Bred Breeders. 12 varieties, Best laying strains. Incubate 15,000 eggs daily. Catalog free. able prices. Free live delivery. Missouri Farms, Columbia, Mo.

WHITE LEGHORN CHICKS from pedigreed cock, erels direct from Hollywood Farms, every breeder personally selected by Prof. Foreman of M. A. C. Quantity Limited. Quality the very best. Circular free. Maple Haven Farm, B. 5, Jackson, Mich.

BABY CHICKS—Barred Plymouth Rocks and S. C. White Leghorns. Send for catalogue. Snowflake Poultry Farm and Hatchery, Route 5, Middleville, Michigan.

BABY CHICKS bargain prices. Barred Rocks, White and Brown Leghorn. Guarantee full 100% alive, free delivery. Hillview Poultry Farm Hatchery, R. 12, Holland, Mich.

CHICKS—English strain S. C. White Leghorns that lay and pay. Order early. Write for free cata-logue and price list. Honorbilt Farm & Hatchery, 145 S. Elm St., Zeeland, Mich.

BABY CHICKS from heavy egg producing strain. Barren and young S. C. W. Leghorns closely culled. 100% alive. *Circular free. Montella Hatchery, Route 1. Holland, Mich.

SELECTED CHICKS from best strains at living prices. All popular varieties. First hatch in Jan-uary Hatching eggs. Write for circular and price ist. Litchfield Hatchery, Litchfield, Mich.

QUALITY CHICKS for delivery each week after March 1st. 8. 0. White and Brown Leghorns. 100 % live delivery. Catalog free. Standard Hatchery, Box B. Zeeland, Mich.

STERLING QUALITY CHICKS from 14 Varieties, Pure Bred Certified Stock, Prices Right. P. F. Clardy, Mammoth Hatchery, Highland View Poultry Farm, Box 6, Ethel, Mo.

BABY CHICKS—Six leading varieties. Write your wants. Special prices on large, advance orders. Free catalog. H. H. Pierce, Jerome, Mich.

CHICKS; Low prices for pure bred stock. S. C. Eng lish Whites, Browns, Anconas and Barred Rocks Oatalogue free. Free delivery. Bos. Hatchery, Zee-land, R, 2, Mich. (Formerly Fairview Hatchery).

CHICKS. From free range selected flocks bred to lay. All popular varieties. Prices right. Send for catalogue. 100% delivery guaranteed. Homer Hatch-ery, Homer, Michigan.

BABY CHICKS. Save \$3 to \$10 per 100 by placing order now. Pullets lay at 4 months age. Write for free catalog. D. T. Farrow Chickeries, Successors Far-row-Hirsh Company, Peorla, Illinois,

HELP WANTED

SALESMAN wanted in your locality, to sell and install one of the best lines of Pipeless and Pipe Furnaces made in Michigan. Now is the time to start a good paying business of your own. Farmers are selling our line, some have sold as many as 30 Furnaces in one season. Why not you do the same? In answering give full particulars as to yourself and present business, where located, name in full and post office address. All correspondence is confidential. Address to H. C. Murray, State Agent, 304 South Woodward Ave., Birmingham, Mich.

WANTED—Reliable man on 150 acre farm, 30 miles from Detroit. Must be capable of taking charge and going ahead with work as owner is away all day. Six registered Holsteins and three horses to take care of. Can use single man or married man if wife will assist with housework. All year round job. State wages wanted and experience. E. S. VanDalson, Salem, Mich. wages wante Salem, Mich.

EXPERIENCED farmer wanted. Must understand care of stock. Wife must understand butter making. Prefer family with son old enough to manage tractor. Farm is near Detroit. Apply by letter, Box C. B.—3, Michigan Farmer, stating experience and reference.

WE PAY \$200 monthly salary and furnish rig and expenses to introduce our guaranteed poultry and stock powders. Bigler Company, X 683, Springfield, Hilnois.



GRAIN QUOTATIONS

Tuesday, January 9. Wheat.

Detroit.—No. 2 red \$1.34; No. 2 mixed \$1.32; No. 2 white \$1.32.

Chicago.—No. 2 hard \$1.19@1.20;

December \$1.1734.

Toledo.—Cash \$1.34.

Corn.

Detroit.—Cash No. 2 at 75c; No. 3 yellow 74c. Chicago.—No. 2 mixed 71¼@71½c; No. 2 yellow 72c.

Oats.

Rye.

Detroit.—Cash No. 2, 90½c. Chicago.—87 1/4 c.

Seeds.

Detroit.—Prime red clover cash at \$13.40; March \$13.55; alsike at \$10.75; timothy \$3.40.

Toledo.—Prime red clover cash at 13.40; alsike \$10.85; timothy, new, at \$3.30; old \$3.35.

Detroit.-No. 1 timothy \$16.50@17; 16.50; No. 2 timothy \$16.50@17; standard \$16@16.50; light mixed \$16@16.50; No. 2 timothy \$14@15; No. 1 clover \$14.50@15; rye straw \$11.50@12; wheat and oat straw \$11@11.50 per ton in carlots.

Feeds.
Bran \$34@34.50; standard middlings \$33@34; fine do at \$35; cracked corn \$35.50@36; coarse cornmeal \$34; chop \$29.50@30 per ton in 100-lb sacks.

Fruit.

Apples.—Jonathans \$4.50 per bbl; Wageners \$4; Greenings at \$4@4.50 per bbl; Kings at \$5@5.50; Northern Spies \$5; Baldwins \$4@4.50.

WHEAT

Most of the gains in wheat prices in the last month were erased last week. The sales of speculative hold-ings as a result of the political crisis abroad, heavy primary receipts and additional evidence that foreign coun-tries will be unable to finence the purtries will be unable to finance the purchase of their full estimated requirements were factors. Primary receipts of wheat have been running at practically a record pace for this time of year and two or three times as large as a year ago. In addition Argentine and Australian shipments are increas-ing. Even India with an excellent new crop prospect is selling more freely and Canadian wheat has had the attraction of being cheaper than our hard or red winters. The situation is not entirely one-sided, however, as Europe will continue to buy at least moderately, the southern hemisphere surplus is smaller than a year ago, a poor crop outlook in our southwest and other factors tempers views of leaver price. er factors tempers views of lower prices. The break may have already touched bottom.

RYE

lower.

In the last six months about 35,000.-000 bushels of rye have been cleared for export and the movement keeps up rather steadily. Germany bought about 4,000,000 bushels last week in spite of her depreciated currency.

OATS

Both eastern and southern distributing demand for oats have increased recently but prices lost ground along with wheat. Receipts have been surprisingly uniform from week to week in the last four months and are now

about twenty per cent above normal sonal increase in the lay will check for this time of year. They are disappearing into consumption, however, and the visible supply is slowly melting and the visible supply in the visible supply is slowly melting and the visible supply in the visible supply is slowly melting and the visible supply in the visible supply is slowly melting and the visible supply in the visible supply is slowly melting and the visible supply in the visible supply is slowly melting and the visible supply in the visible supply i

SEEDS

Clover seed prices advanced to the former season's high point early last week but lost the advance later. Receipts this season at Toledo, the principal market, have been about 25 per cent larger than last year. Timothy seed prices have changed but little for several weeks.

FEEDS

Detroit.—Cash No. 2 white 49½c;
No. 3, 48c.
Chicago.—No. 2 white 43¾@45½c;
No. 3 white 43¾@45½c.
Beans.
Detroit.—Immediate and prompt shipment \$8.
Chicago.—Choice hand-picked Michgan beans \$8; red kidneys \$8.

FEEDS

By-product feeds are not in keen demand at present while stocks in the hands of both manufacturers and dealers are liberal. Wheat feeds in transit are offered considerably cheaper than mill prices for future shipment. Flour mill operations have declined but little from the high point of the season.

Light receipts of hay have been diminished still more by the holidays. Demand is limited but timothy prices on the leading markets were steady to higher while alfalfa prices were firm.

EGGS & POULTRY

In spite of the supposed increase in poultry production, receipts of eggs at the four principal cities in the last five months of 1922 were lighter than in the corresponding period of 1921. This has made good prices for fresh eggs possible and helped work off storage eggs to advantage which will have some effect on next season's prices when eggs are going into storage, Prices have been erratic recently, advancing early last week only to slump sharply later on. Receipts in the new year are starting lighter than last year year are starting lighter than last year sections were far above normal last and consumption is at a high rate but week, especially boxed apples which the large storage stock and the sea- weakened in price while the barreled

Hogs.

Estimated receipts today are 31,000; holdover 24,432. Market slow and 10 @15c lower. Bulk of sales \$8.25@8.55; tops \$8.65; heavy 250 lbs up \$8.30@ 8.40; medium 200 to 250 lbs \$8.35@ 8.65; light 150 to 200 lbs \$8.50@8.65; light lights 130 to 150 lbs \$8.45@.8.65; heavy packing sows 250 lbs up \$7.60@

heavy packing sows 250 lbs up \$7.60@ 8; packing sows 200 lbs up at \$7.25@ 7.65; pigs 130 lbs down \$7.75@8.45.

Cattle.
Estimated receipts today are 7,000.
Market is strong and 15@25c higher.

Chicago.—Eggs, miscellaneous 38@ 40c; dirties 25@28c; checks 24@26c; fresh firsts 42c; ordinary firsts 36@ 38c. Live poultry, hens 21½c; spring-

38c. Live poultry, hens 21½c; springers 21-22c; roosters 14c; ducks 19c; geese 18c; turkeys 35c.

Detroit.—Eggs fresh candled and graded 43@46c; storage 26@28½c.

Live poultry, heavy springers 23@25c; light springers 18@20c; heavy hens 25c; light hens 18@20c; roosters 16c; geese 20@22c; ducks 20@24c.

BUTTER

Butter prices at the leading eastern markets declined early last week but when a parity with Chicago was reached, a more stable tone became evidence. dent. Buyers have taken hold more freely since the first of the year but receipts are much heavier than a month ago and are running materially larger than last year even though production reports show no increase. As a result, daily drafts on cold storage stocks have been decidedly reduced in the last two weeks.

Prices on 92-score fresh butter were: Chicago 51c; New York 52½c. Fresh creamery in tubs sell in Detroit for 46@48c per pound.

POTATOES

The potato markets were generally steady last week. The holiday season curtailed shipments but the movement was about twenty per cent above the average for this time of year. The behavior of the market suggests an advance later on but it is slow to arrive. Northern whites are quoted mostly at 75c@\$1.10 per 100 pounds in middlewestern markets.
APPLES

Apple shipments from producing

Live Stock Market Service

ologna bulls ... 4.50 0 5.25
tock bulls ... 3.50 0 4.25
eeders ... 6.00 0 6.75
tockers ... 4.75 0 6.25
lilkers and springers ... \$ 40 0 70.00

Veal Calves.

Receipts 610. Market steady to 50c

Receipts 610. Market steady to 50c

stock held steady although the barrelstock held steady although the barrel-ed crop and barreled storage holdings were relatively heavier than boxed. Exports up to December 23 were 1,-049,647 barrels and 1,869,964 boxes as compared with about 500,000 barrels last year. This year's exports also ex-ceed those of two years ago by about 60 per cent. British prices are quite attractive. New York Baldwins are quoted at \$4@5 per barrel in leading cities.

WOOL

Moderate expansion in the demand for wool from manufacturers was reported at eastern concentration points last week. Prices were firm at levels recently prevailing. Foreign wool markets also showed strength although no certifications. kets also showed strength although no auctions were held during the holidays. Stocks of "Bawra" wools, or British Australian Wool Realization Association wools at the end of November were 940,894 bales, indicating that 949,494 bales had been disposed of during the previous eleven months, and suggesting that the balance of these Australian wools carried over from the war period will be disposed of within another year. Presumably holdings of free wools in Australia were no larger on November 30 than they were on the corresponding date a year ago. The situation in Australia is one piece of evidence that wool conis one piece of evidence that wool consumption is steadily gaining on production.

BEANS

Details of the government's final estimate upon the bean crop show that the Michigan returns were increased 305,000 bushels to a total of 4,809,000 bushels. The new York and Idaho estimates also were raised while California, Colorado and New Mexico all showed severe losses and the total crop was estimated at 11,893,000 bushels or 1120,000 bushels less than in els or 1,120,000 bushels less than in October. Since prices advanced during the usually dull holiday and inventory period and the crop is below the average, trade sentiment is mostly bullish.

DETROIT CITY MARKET

The demand was good for poultry, elery cauliflower, apples and cab-The demand was good for poultry, celery, cauliflower, apples and cabbage. Because of the cold weather potatoes are not in such great supply and are bringing better prices. Pumpkins, squash, carrots and onions are moving slowly. Apples are bringing 75c@\$3; cauliflower \$2; celery 15@75c per dozen bunches; carrots 75c@\$1.25; eggs 65@70c; dry onions \$1.25 per bu; potatoes 55@60c; poultry, live 25@32c; ducks 28c; geese 26c; squash \$2@2.50.

GRAND RAPIDS

The white bean market late last week and early this week again staged the unexpected by advancing during the last few days of the rush tax-pay-ing season. Three advances in as many days carried prices up 30c per hundred weight. Most of the country elevators were paying from \$7.25@7.50 per cwt. Egg bids rebounded two cents a dozen to 38c, and live stock, especially lambs, were marked up fractionally to a whole cent. The potato market shows no improvement with the car shortage again restricting the movement. Poultry was quiet but the movement. Poultry was quiet but the trade was getting set to handle more as the furniture season gets farther advanced and more buyers come into

BUFFALO

Cattle.

Receipts five cars. Market steady. Receipts 2,470. Market steady.

Rest lambs\$14.50@14.75
air lambs\$12.50@13.25
culls and common\$2.50@ 4.00
ight to common\$00@11.25
air to good sheep\$6.50@ 8.00
earlings\$10.00@13.25

Hogs.

Receipts five cars. Market steady.
Choice to prime shipping steers, 1,400
pounds and up at \$9.50@10; good to
choice shipping steers \$8.50@9; heavy,
fat medium quality \$7.50@8; medium
to good \$7.07.25; light native yearlings, fancy quality \$10@10.50; medium
to good \$8.25@9.25; best handy
steers \$7.50@8; plain at \$6.50@7.25;
handy steers and heifers at \$6.75@7;
western heifers \$6@6.50: light Micht Receipts 2,980. Market is 5@10c lower.

Mixed hogs \$3.75 corn at primary markets were the largest on record for this period with one exception. Prices have declined along with wheat and the movement has subsided as growers are confident of higher prices later. Export demand has picked up again and average weekly clearances in the next six months of about 2,000,000 to 3,000,000 bushels from the United States appear probable in view of foreign needs.

Receipts 2,980. Market is 5@10c handy steers and heifers at \$6.75@7; western heifers \$6.60@7; best fat \$5.50@6.25; medium to good \$3.75 fat \$5.50@6.25; canners good 4.500; cutters \$2.50@3.25; canners good weight \$1.75@2.25; common and old rims \$1@1.50; best heavy bulls \$5.50@6; heavy bologna bulls at \$4.75@5.25; lowers good \$5.50 holdover 24,432. Market slow and 10 mode 24,

Hogs.

Receipts 35 cars. Market steady. Heavy \$9.15; yorkers and pigs \$9.50. Sheep and Lambs.

Receipts seven cars. Market strong. Top lambs \$15.75; yearlings \$12@13; wethers \$9@9.50; ewes \$7@8.50.

COMING LIVE STOCK SALES.

Shorthorns and O. I. C.'s .- January 23, Creek.

Creek.
Chester Whites.—March 8, Alexander & Bodimer, Vassar.
Poland Chinas.—February 1, Doris Hover, Akron; February 17, Witt Bros., Adrian; February 27, J. E. Mygrants, St. Johns; February 28, Charles Wetzel & Sons, Ithaca; March 1, Archie Ward, Breckenridge.

Shorthorns and O. l. C.'s.—January 23, at 1:00 p. m., Claxton & Dieck, Swartz Creek. Poland Chinas.—February 16, E. J.

Mathewson, Burr Oak.

Duroc-Jersey.—January 24, Thos. Underhill & Son and Maple Hill Farms, at Fair Grounds, Northyille.

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[133]

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THE MICHIGAN EGG-LAYING CON-TEST.

THE latest report of the egg-laying contest at M. A. C. shows a Leghorn pen still in the lead but the White Wyandottes follow with a close second. The Leghorns belonging to J. H. Hanson, of Corvallis, Oregon, have the high total of 346 eggs, while the White Wyandottes belonging to the Evergreen Poultry Farm, of Greenville, Mich., come next with 337 eggs.

The pen of Leghorns belonging to E. D. Shaw, of South Haven, which have been leading the contest until the past week has slipped to third place with a total of 329 eggs. Tied for fourth place are the Plymouth Rocks belonging to H. E. Dennison, of East Lansing, and W. H. P. Kent, of Cazenovia, New York, each having a total of 312 eggs.

Among the Rhode Island Red pens that belong to O. L. Dunning, of Delton, Mich., and that belonging to Mrs. E. S. Travis, of Vicksburg, Mich., are tied for first place with 207 hens. The high pen of Anconas belong to A. R. Van Ralte, of Zeeland, Mich., with 193

For the week the White Wyandottes led in production when they attained an average of 41.9 eggs for the week. The Barred Rocks showed an average of 38.8 and the Anconas made a sensational increase of nearly one-fifth per cent, in the week by producing an per cent in the week by producing an average of 23.2. The high pen of the week was the White Wyandottes belonging to the Evergreen Poultry Farms, which produced fifty-one eggs.

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