

The Farmer's Wife

generation ago the wife and er compared her lot with that of the pioneer grandmother, and she felt that she had much to be grateaparisons must be made between herself and city sisters and friends family album, with its reminders of vesterday, is seldom opened. 'Tobile's honk, the jingle of the teledaily paper.

These farm women find themselves in a new civilization, but not of it. double during the next thirty-five They have as great a longing for the best that life can offer as have the of butter as low as it now it, the well-gowned club women of the city. cow population must also double. In many cases, from a financial stand ity of those who possess them. But, as the wives of farmers, they must give themselves to the land, says the terial into a finished commodity. Atlantic Magazine. Their houses go neglected that they may help with measured by the amount of feed the roup? work in the fields.

Their hands are coarse and rough from assisting their husbands with pressing work on the land. Wives of thile at their work, often resemble in their appearance ignorant, poverty pleted the course of the city high ther back on the farm, who has takturning to bitterness, and the daughters are electing new things.

Bacteria in Relation to Soil Nitrogen

ed on within the last one hundred years to solve a large number of problems. Of all the problems which have at last been made clear, none have caused so much discussion so much research work as that con- yielding available riches that were cerning the source of nitrozen to plants.

bemists realized in hie early ocks of the last century the the last century the dinarily contain compounds of nitrogen. A few years later, it became known that very productive soils contain from five to ten thousand pounds of nitrogen per acre to a depth of one foot, and that all this vast quantity of combined nitrogen in the earth's surface has been derived in some way from the gaseous ni agen of the air.

All agricultural men know that the nitrogen content of their soll is a very important factor, and one of which considerable nitrogen is removed by the various crops; but for markets of the world \$600, takes with tunately for agriculture, nature has a means of replacing the constant losses of soil nitrogen. This means was discovered by Hellriegel, a German investigator, and it was that cer tain plants are capable of using for their development the nitrogen gas of the air, but they are only able to the ald of b live in their roots. These certain plants are those of the legume family, such as clover, alfalfs, vetch,

The Dairy Cow Although since 1875 the number milk cows has doubled, increasing from less than 11.000,000 to over 22, 000.000, during the same time, butte for. Today the past is forgotten, prices have not only practically doubled, but the price of cows has in creased \$6.62 a head.

During the period the population has more than doubled, showing that day' is ever at hand in the automo- rapid as has been the increase in the number of cows milked they have not hone bell, and the headlines of the kept abreast of the growing demand. Judging by statistics from reliable

sources the population is to again years, and in order to keep the price

The up-to-date farmer realizes that point, they can as well afford the the farm is but a factory, and that luxuries of modern life as the major-every cow and every other animal is kept there as a machine with a certain capacity for converting raw ma-The value of each cow machine is

cow can eat and convert profitably into milk and butter fat during the year. To determine this point the

dairyman weighs and tests the milk ealthy farmers in this our country, of each cow to determine the production and the amount and cost of feed. He is then prepared to say which stricken peasant women of Europe. is the profitable cow, and which is Many a farmer's son who has com- the loafer. In view of the fact that there are 6,000,000 cows in the Unitschool has been helped to do so by ed States that are eating a portion the sacrifices of an overworked mo of the profits the other 16,000,000 cows are making, the sooner the en upon herself many of the tasks dairy farmer finds these and substitthat otherwise would have been his. utes for them cows of more profit-In the hearts of these lonely, ' toil- able types and breeding the sooner word women, love for farm life is he enlarges the profits of his business.

In doing so he not only becomes a manufacturer in the truest sense but

he also becomes a wise banker in Scientific agriculture has been call- that he refuses to loan to the cow year after year that which she never returns, and on which she never pays interest. In the New England States farmers who in the past thoughtlessly robbed their farms of the profit stored up in their lands are now re claiming those some farms by the in-

telligent use of the dairy cow. Each year the land that provides for the dairy cow is growing richer, while the farms that are devoted exclusively to growing and marketing rain in its raw state are growing poorer and less productive. The reason is not hard to discover, for it is a known fact that with every ton of corn sold off the farm bringing from \$18 to \$20, goes \$5.50 worth of fertility; a ton of wheat worth \$35 removes \$7.50 worth of fertility; a ton of beer worth at the present high

prices from \$150 to \$200 takes with it about \$17 worth cf richness, while a ton of butter, worth today in the only 49 cents worth of fertilizing ingretlients, and by providing those a'trogenous foods that are necessary for greatest butter production, alfalia, cow peas, soy beans, fed in connection with ensilage, returns to the

land many times this amount.

Intensive Farming A reader stirred up by my state ment of \$200 returns from one-eighth acre in vegetable plants, especially cabbage and celery, asks me, says a fowl in a small space and the respirapeas, beans, etc. We may now un-writer in Farm and Fireside, what may be his chances of securing an income of, say, \$800 an acre on two birds quite wet in the morning when acres planted in these or similar crops in the suburbs of a small city. An income of \$800 or \$1,000 from an acre of market-garden crops, and especially of vegetable of flowering

Poultry Questio

The lecturer or teacher begins to eet .nat his remarks are app celeted calv when his hearers show a de ite to question big regarding his statements. Here are some of the stray shots fired at Lecturer Marcellis of the Oatario Agricultural Collge by the farmers and poultry fanciers of Prince Edward county in the ourse of his "Poultry Talks" in the

town of Picton recently. Q .- Should we litter the floors of our hen houses with straw?

A-Certainly: we are never without it in our poultry houses. Q-How about the use of coal or

wood ashes on the flcor? A-They are not bad for this purpose. However, the dust arising from them so close to the heads of

the hens is apt to set up an irritation in the throat and bronchial tub Sand is perhaps preferable to 28 ashes of any kind, as the dust will be missing.

Q-How would you treat a case of medicine her little

A-If it is a pronounced case you all other might as well use the hatchet. You bles, " may cure the particular fewl which is are pla affected, but this trouble is contagious through the use of a common Philin Que., stipa Noth drinking fountain, etc.

Q-How often should we clean out houses?

A-If you have plenty of time, by all means clean them out every day. is really as necessary to clean a hen house daily as it is to clean a horse stable that often. However, labor is scarce 'and where droppingboards are not used, the cleaning need not be done so often.

Q-What do you think of droppings as manure?

was used in printing the 1913 Edi A-To get the most out of poultry n.anure, you should keep it perfectly tion of the Na-Dru-Co. Almanac, just dry until it is used. Besides this, do off the press. As each Almanac not put it on the ground until the weighs a little less than two ounces this means that 700,000 copies were crop is there, as poultry manure is easily washed out. Once it has been printed-one ocpy for every 11 indiv-'eached by the rain, if is of little iduals, or for every two families, in Canada. value as fertilizer. Stronger evidence could scarcely

Q-May we feed our hens corn on the cob? A-There is no objection to feed- which has already been won by the

ing on the cob. as I can see. Q-is the whole grain oat a go fourth Edition. This is due to the rich fund of useful information it

A-It is good if it can be fed without the hulls. The hulls contain health and physical comfort. from 25 to 40 per cent, fibre which is of no value as a pcultry food. Feed oats with some other grain. Q-What is a reasonable cost of onstruction for a poultry house?

A-You cannot hope to build a house which will serve its purpose for any less than \$1 per fowl housed Q-What about whitewashing the interior of the houses? ings, etc.?

A-By all means whitewash. do so twice a year always.

Q-How do you treat for vermin? A-We disinfect twice a year. The od scems to me the For mites we use pure kerosene either with the spray or pour ed where the mites congregate Q-Do you feed the grain in the

or litter? A-Yes, we sometimes have from 14 to 16 inches deep in litter and we

always feed the grain in this O-Do you hang curtains directly in front of the roosts?

A-No. If you do, you confine the

UNDER ANAESTHETIC

Mrs. Henry Seeley of Markham ville, died very middenly at Susse on Friday, at one of the hotels. Sh ad come to town, accomp anled by her mother, to consult a physician. After making a careful examination he found that she had some serious trouble with her teeth, and had a dental operation would be necessary.

Her heart and lungs were examin and it was decided that she was ful ly able to withstand an anaesthetic In fact, the operation was considered an ordinary one, particualry as she was young and seemingly in good health. A dentist was called in, an anaesthetic was administered, and the operation was carried through. Then it was found that the patient for was not rallying properly, and she from the same set of day soon began to sink rapidly instead of recovering from the anaesthetic. In spite of every possible effort made to restore consciousness, death soon way, the commission ensued. The doctors are at a loss to account for her unexpected col-

lapse, as her condition before the op-eration had absolutely no indication of danger. **CONSTIPATION CURED BY**

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Int Report

Titanic Di

The carrying of extra

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launching each of th eign-going vess is, in whi iation would thai all could not be stor that the carrying of pro ped reversible por be allowed. These should be of accommodating not more per cent. of the persons the certified to carry. The raf be of such size that they thrown from the deck if n

UNIONISTS AGAINST ANY TAXES ON FOOD

wel trou A London cable sa"a: Mr. Boas ntle laxative are abso Law has been presented privately them, Mrs. with a memorial signed by 219 Uni onists in the House of Commons ag-Perpetue. ainst making the food taxes an isbadly con suei n the next election. He said at d to do once that he would, consult Lord Lansdowne and give an answer as quickly as possible. The Tab

The terms of the memorial are secret, although several versions in the shoal at high spee are returned to power they shall sum men decided that they cret, although several versions, are mon an imperial conference to dis- discovery to practical cuss by what means imperial preference can be decided.

That a Bayonne, N. J., cat was responsible for a diphtheria epidemic the Bergen Point section of the city came to light Friday when it was despatched by an agent from the Society for the Prevention of ty to Animals. The 4-year-old son of Mr. and Mrs. Charles Prenderville. took the cat into his home and short be given of the wonderful popularity ly after was taken ill. Three neigh which has already been won by the Na-Dru-Co Almanac now only in its theria, and in each with dipt #: was recalled, the child hent played with the cat.

A bell bearing the date, 1702, and marks indicating that it once belonged to Queen Anne and was presented by her to Trinity church of Newport R. I., has recently been found there The bell has been stored away un der a stage in the guild hall of the church for years. No one thought it was of any importance until it was ing of boiled potato and apple peel hauled out and examined by Rev. S. C. Hughes, now rector of the parish, a few days ago. The bell is 2 1-2 feel absorb the moisture it is all right. high, and is marked with a broad ar-Feeding of wet mashes is very often row. All of the bells given by Queen nne to American colony churches

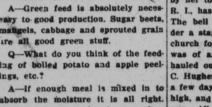
Туре The Bo ported at Pri two large whale herd the shoals port. Fishermen n in pursuit of herring.

the herring inshore, t ened their mouths and wen watch for the sea over the whales and to drive the herring Big hauls have be

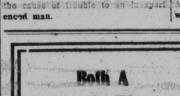




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were so marked.



Bread Flour

And A

Pastry Flour

the discovery was



crops are grown by orchardists for their cover crops in the orchard. The plants in their development have attained a "considerable amount of nitrozen, and when plowed under the gous matter therein is returned to the soil to be utilized by succeeding crops, thus directly adding a nitrogenous fertilizer to the soil.

Or again, considering the average farmer following a fairly systematic rotation of crops, which includes one of the legumes. He plows under the residue from the crop, and in addi-tion to this the manure produced by feeding the legume crop is carefully returned to the soil. The amount of altrogenous matter thus added by the altrogenous matter thus added by the leguminous residue and the manure will be greater than that lost by the removal of the other wrops in an or-dinary four or five year rotation. These facts show the important part which hasteris play in regard to leg-uninous drops and the necessity of including a leguminous crop in the relation in order to maintain the sup ply of nitrogenous plant food.

taneous Combustion from May by years ago the barn of Gen-Barchard, former associate of Honer's Dairyman, was con-to some the second by fire, caused by the apon-us amoustion of alfalfa, which been put thito the mow in the a condition. One other harn in cinity was burned in the same by the spontaneous combustion or. A number of instances

nel where, when the mow rat, a mass of hay was

centre near the t

plants, is not only within the reach of possibility, but also of reason, and is actually secured (and more too), by many gardeners near our cities or villages. But so much depends on local conditions, manage ment, skill of the grower and seller. that I would not give any guarantee. Begin, slowly, gradually, carefully, and expand as you see your way clear. Do not let my figures tempt you te run in debt for land, giving up another business that has so far pro-vided a living. Use discretion and common sense.

Where Land Does not Run Down In 1840 there was obtained from Rothamstead Farm, England, 10 tons per acre of turnips, and after sixty

years on the same ground 19.9 tons of turnips were taken off. With barley which followed the turnipe in the rotation in 1849 33.4 bushels per acre was obtained, and in 1909 46.5 Sushely. The clover in the rotation pointed to similar results, there be-ing 2.5 tons in 1849 and 4.5 in 1910 ing to toke in test and to in 1950 off the same piece of soli. By a pro-per system of rotation and fertiliza-tion the land is steadily becoming more instead of less productive.

a curtain was used in front of the rocsts.

Q-Is it advisable to teed corn whole or cracked?

A-If you feed it whole and with other grain, the pullies in the flock will soon take all the corn, while 'he weaklings will get the other. If the corn is cracked you are sure that each fowl will get a share of it. Whether or not you should feed it thus icpends on the cost of having it cracked.

Q-Would it hurt to feed hens all quantity or rye?

A-Don't use it if you can prevent it. Anyway, the birds will generally ofuse to eat rye.

A-Is animal yeal as good as beef-CTAD?

No, I do not consider it as go Q-How about oystershell as grit? A-Oystershell has no value as a grit. It is almost as soft as the grain

Q-Do you ever feed lime to hens? wallows a piece of unslaked lime there is every chance for a functal. Q-Would you recommend the feed ing of egg shells to poultry? A-I would if you grind up the shells. If you do not, the hens will probably acquire the set eating ha-

probably acquire the egg-cating ha-

Q-About how much grit do hens

A-Cu a farm where the hens may A single turn of a corkscrew-like implement that a Pennsylvanian has patented cuts out the core of a grape truit and loosens the pulp from the skin.

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