

### Keeping Butter for Home Use

or, if not entirely withheld, are at least applied in much less quantity than the amount of such elements applied to the soil in the production of a good crop. Thus it was found that a great saving could be made in corn production, by adding much less nitrogen to the soil. It was also indicated, showing that nitrogen is not supplied to growing corn entirely from the soil.

It is also coming to the aid of the farmer in determining the food value and digestibility of feeding stuffs for his stock, enabling him to compound rations which shall be economical and at the same time sufficient for the purposes for which the animals are kept. Hitherto there has been too much guess work in cattle feeding, and the same is true in other guess work. It has been done without any regard to the laws of animal nutrition and with no consideration of the value of the food ingredients for the production of flesh, fat or milk. For the little light we have upon the subject, we are indebted mainly to the work of the French investigators, though something has been accomplished in this direction at the experimental stations of the United States.

By regard this question of feeding to the domestic animals, we can see its importance to the American farmer at the present time than almost any other, and its importance is greater or less according to the conditions of production to the time that domestic animals require to be fed. In Maine and New Brunswick, where the feeding season is long, the question of economy in feeding is of the greatest importance. There are some farmers who will reject all this, and other persons who will not believe in the value of feeding, but the number is growing less, and the time has gone by forever when stock-farming can be denied or set aside as a waste of money and of the soil. The most skeptical of a few years ago, are now the firm friends of, and believers in scientific investigation."

To Preserve Cider.

The Maine Farmer says:—"We do

making of these is an elegant occupation for the wives and daughters

farmers in their intervals of recreation from serious household labors. In most families there are one or two who are artistic ladies, and like to see handsome and pretty things around them:—

To dry flowers and ferns for winter bouquets—take deep dishes or those of the shape of a paste bowl, and cover an inch deep with sand; add the common white sand, such as is used for the purpose, to the bottom of the dish with a layer of an inch deep, and then lay in the flowers, stems downward, holding them in position with the fingers. Sprinkle sand over them, until all spaces between the petals are filled with sand. The flowers should be large, and the stems buried out of sight. Bury a large number. Set the dish in a warm place where they will not be disturbed. Turn the dish once a week pour off the sand and examine them. If there is any moisture in the sand it must be dried out before using.

owers will require weeks to dry, while others will become sufficiently

**Chemistry in Farming.**

The Maine Farmer says that, "Chemistry has assisted the farmer in a variety of ways. It is true that

special training necessary, have the money and means at hand, to pursue original investigations in the science

chemistry, but because they are not to it, it does not follow that they are not generally benefited by it. It is not generally true, for example, that a farmer to be more economically and practically acquainted with agriculture, should first of all become a chemist; the next best thing is for them to avail themselves of the labor of those who make it a study and produce the results of their study by extending the published accounts of their investigations. Some of these accounts are so popular in their character, such as few would have the patience to continue to a successful view, though the results when reached may be of great value.

One important lesson which chemistry has taught is how to feed our plants. It has shown us that in order to ascertain what elements are stored up in plant growth. This was accomplished by chemical analysis. In determining the constituent elements of our different food plants, it follows that a soil to produce these plants

tain the proper fertility of the soil, there must be restored to it annually,

the amount of these elements renewed in the crops. But further investigation showed that this was not a complete solution of the question, because of the two sources of plant food, the air and earth. It was ascertained that true thrift and economy were successful in the growth of certain crops, when one or more of the elements or

1. **NAME** \_\_\_\_\_

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## FREDERICTON

# C N CLARK'S

# C. N. CLARK,

Frederickton, September 22, 1901.











# LENA RIVERS.

appearance, for as

"Perhaps she thinks me not worth the winning," thought he, and in spite of his own feelings, he could not help observing all his powers to please and interest her.

At about a time, Captain Atherton drove into the yard, and simultaneously with his arrival, Mr. Everett came also. Immediately on the entrance of the latter, he heard, Durward, in his eagerness to watch Lena, fall to note the crimson flush on her cheek, and the sparkling of her eyes bent over her with his low-spoken, tender words of welcome, and when the phidias of her hair, which she had just brushed off, freed, kissed the blushing Anna. Durward in his blindness attributed the color to the heat of the day, and the feeling of unwillingness that any save herself should share the attentions even of a friend, and in his impression, he was ere long confirmed.

Drawing his chair up to Anna, Captain Atherton engaged her deep attention at a distance, while, by himself, he could not help using the young girl, who cast imploring glances at him, as a screen, as if asking for relief. Many a time, or twice, he thought he had Lena claimed the attention of the captain, and he was not a little surprised to converse with Malcolm, and to find that what was wanted of her, she needed not. He was not a little surprised to rescue. Just then, Mrs. Livingston, who had kept an eye upon her niece, drew her to the side of the captain, and said, "Lena instantly arose and offered hers, giving herself to the place where the captain stood, and she was not a little surprised and the captain's loud laugh began to attract Mrs. Livingston's attention, and

while 'Lena, with a beating heart and slightly heightened color, repaired to the parlor.

On a sofa by the window sat Mrs. Graham, and the moment 'Lena's eye fell upon her, her fears vanished, while she could hardly repress a smile at the idea of being afraid of her. She was a short, dumpy, afraid looking woman, showily, and as 'Lena thought, *over* dressed for morning, as her person was covered with jewelry, which flashed and sparkled with

'bright, naughty eyes' flash so angrily,  
that even Durward noticed it, and won-  
dered if 'Lena's temper had not been  
transferred to her cousin.

*To be continued.*

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Fredericton, Oct. 6—3m.

July 29, 1880.

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