

## The Bousehold.

# Bread and Bread-Making.

We are indebted to Mr Geo. Longman, of the Toronto Mechanics' Institute, for the following article which he sends in reply to the enquiry made by "A Subscriber." in our last issue: - " Perhaps some of your correspondents could tell me how to make Brown (or Graham) bread?" This article is taken from the Herald of Health, published by Dr. Trall, New York, and was prepared for that paper by Mrs. Jones. Matron of the Hygienic Institute in that city.

As by common consent bread is the "Staff of Life," As by common consent bread is the "Staff of Life," the question naturally arises, "What are the best materials of which it can be made, and the best methods of making it?" The common white flour, formented bread, which is so universally used, is very far from being the best as an article of diet. The use of fine or bolted flour, has opened upon it "community a perfect "Pandora's Box" of evils in the shape of constipation and the ten thousand ailments to which it gives vise. By the separation of the brain from the it gives rise. By the separation of the bran from the flour not only a portion of the grain necessary to the proper distension of the stomach and bowels is removed, but it has been repeatedly proved by chemical analysis that the bran is as rich, or richer, in nutritions substances than the flour. These are not merely the "notions" of hair-brained ""brau-bread," "crazy fanatics" but facts which recommend themselves to the common sense of all who will my estigate, which have been proved by the experience of thousands, and which have been demonstrated by the highest scientific authorities, a few of which we quote :

Dr. Johnston, M.A., F.R.S., P.G.S., &c., in his is disguised themistry of Common Lete, says. The bran or husk chemicals of wheat, which is separated from the fine flour in the mill, and is often condemned to humbler uses, is somewhat more nutricious than either the grain as a whole, or the whiter part of the flour. The nutritive Having demonstrated the effects of bad material quality of any variety of grain depends very much and bad management of it we will consider what are apon the proportion of gluten it contains; and the the best materials and the best methods of preparing proportions of this in the whole grain, the bran and the line flour respectively, of the same sample of wheat, are very nearly as follows.

Whole bran (1211) and anter or about a fact that a

If the grain, as a whole, contains more than twelve per cent of glaten, the bran and the floar will also contain more than is above represented, and in like proportion. The whole meal obtained by simply grinding the grain is equally nutricious with the grain itself. By sifting out the bran we render the meal less nutricious with the grain itself. meal less nutricious, weight for weight, and when we consider that the bran is rarely less, and is sometimes considerably more, than one-fourth of the whole weight of the grain, we must see that the total separation of the covering of the grain causes much waste of wholesome human food. Bread made from the whole meal is, therefore, more nutricious; and as many persons find it a more salutary food than white bread, it ought to be more generally preferred and

Prof. Youmans, author of the standard works on Chemistry, Household Science, Chemical Chart, &c., 178. The grain of which bread is made consists says. The grain of which bread is made consists mostly of statch, glatch, and sugar. The lignous hash of grain produces the brain, while the flour is firmed by the interior whice portions. The gluten is tougher and more difficult to grind than the starch, hence the finest and whitest flour, obtained by repeated siftings, contains a larger proportion of starch, the darker coloured flour being richer in gluten, and to the marritic proportion of flour are it, proportion as the nutritive properties of float are in proportion to the nitrogenized element (gluten.) the latter kind will make the most nutricious bread.

The Lelecto Recore, in an article entitled Frauds in Food, says Many of the most important elements of our blood, brain and bone, are found in the greatest abundance in the coloured, outer part of the wheat, which we deem fittest for pigs, so we fatten them and suffer ourselves. The difference in nourishing preparties have suffered to the pigs of the coloured for the pigs of ing properties between whole meal flour and very finely dressed flour amounts in many cases, to fully

Dr. Bennett says: " Now, if there is a well established fact emanating from chemical analysis, it is this: that superfine or very finely bolted wheat flour will not alone sustain animal life. This fact has been repeatedly demonstrated by Magendi, the greatest physiologist that ever lived. Having ascertained that the muscular and nervous tissues, including the whole brain or cerebral mass, was composed of nitrowhole brain or cerebral mass, was composed of attro-genous matter, he readily concluded that starch, or the feedla of wheat, which not alone sustains animal life, for the reason that it contains, not a particle of nitrogenous matter. Consequently, he found by ex-periment, that animals fed exclusively on very finely dressed flour, died in a few weeks, whereas those fed on the unbolted thrived." on the unbolted thrived.

Dr. John Ellis, Professor of the Principles and Practice of Medicine, says: "The worst case of scurvy I ever had to treat, occurred in a little girl, five or six years old, who lived entirely on toast made of superfine flour.

The second objection to the common method of

The second objection to the common method of bread making is the fermenting process to which it is subjected. Fermentation as all persons at all conversant with chemistry know, is, as described by Professor Johnson: "The consequence of a peculiar action, which yeast exercises upon moist flour. It first changes a portion of the starch of the flour into sugar, and then converts this sugar into alcohol and carbonic acid, in the same way as it does when it is added to the worts of the brewer or the distiller. As the gas cannot escape from the glutinous dough, it collects within it in large bubbles, and makes it swell, till the heat of the oven kills the yeast plant, and causes the fermentation to cease."

RYE AND OATMEAL BREAD.

Unbolted tye or oatmeal, prepared after receipt No. 4, makes excellent and wholesome bread for those who like the peculiar flavour of these grains.

CORN CAKES.

Pour 1 quart boiling water on 1 quart corn meal, and stir quickly. Wet the hands and form into small round cakes one-half inch thick. The addition of a few respherries, huckleberries, or any sub-acid fruit, is a decided improvement. Sweet apples, chopped fine, are also excellent.

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Stir thoroughly together 1 quart sweet milk, and 1 quart corn meal. This is also improved by the control of these grains.

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Who would think of taking a half decayed apple or potatoe and subjecting it to the action of heat to stay, the process of putrefaction, and then placing it before human beings as food? And yet this is precisely what is done by fermentation. Take a common bread sponge." as it is called. Let it remain thirty-six hours longer than usual, and what is the result?—a sour almost putrid mass. This process of putrefaction commences the moment the years is added to tion commences the moment the yeast is added to moist flour, and is only checked by the action of heat Baker's bread is often still more objectionable, from the fact that an inferior article of flour is used which is disguised by the introduction of alum and other chemicals. Soda and saleratus, in all their forms, are decidedly injurious, and when introduced into bread, biscuit and other articles of food, are a prolific source of disease.

and cooking them. Bread, to be the most wholesome and palatable, should contain but two ingrediments.

t—unbolted flour made from the best quality of wheat
or other grain, and pure water. The following, so
far as we know, are the preferable methods of making
it arranged in the order of their respective merits.

### UNLEAVENED BREAD.

No. 1.-GENS.-Stir together Graham flour and cold water to about the consistency of ordinary cup-cake batter. Bake in a hot oven in small tin party pans, two inches square and three-fourths of an inch

Roll out one half an inch thick, and cut it in small cakes or rolls. If a large quantity is required, roll about three-fourths of an inch thick, and cut with a

enife in diamond shape. Bake in a very hot oven forty-five minutes.

Note.—The names by which these two kinds of bread are known in our Institution are merely arbitrary. Years ago the guests of the house christened \( \) 2. Diamonds, from their shape. No I being of quite recent introduction, and, as many think, much superior some facetious patient, on their thris appearance suggested "geins" as an appropriate name, and, accordingly, gents went the round of the tables tail the roubirquet became freely attached to them.

biscuit cutter, and bake in a hot oven from thirty-five

to forty-five minutes.

No. 4—GRALLY Biscell — (another form.)--Stir into cold water Graham flour enough for a rather soft dough; knead it for five or ten minutes, and bake the same as No. 3.

Nore.—When these have become a little dry or hard, cut in small pieces, cover with cold water, soak till thoroughly soft, when the water should be all absorbed. Strain through a collander, mix Graham flour sufficient to roll, and bake in the same form as at urst. This is even superior to the original bread.

No. 5.—Wheat Meat Crisps.—Make a very stiff dough of Graham flour and cold water; knead thoroughly, roll as thin as possible and bake for

only minutes in a hot oven.
No. 6—Graham Crackers are made by mixing cold water and Graham flour together, and kneading very thoroughly. They can only be well made by the machinery used in cracker bakeries.

till the heat of the oven kills the yeast plant, and causes the fermentation to cease."

Stir thoroughly together I quart sweet milk, and I quart corn meal. This is also improved by beating.

Professor Youmans says. "If the fermentation, lake in a deep platter, in a hot oven, about forty-five Professor Youmans says. "If the fermentation, lake in a deep platter, in a hot oven, about forty-nve proceeds too far, the dough becomes sour; that is, minutes. These proportions will not hold good in all the vinous passes into the acctous fermentation, the cases owing to the difference in meal. A few trials, alcohol changes to vinegar.

[however, will enable any one to judge as to how

much of each is required.

In the use of unbolted flour persons need not be they may use yeast, soda, salt, saleratus or other compounds, and have bread proportionally better than fine flour bread mixed with the same ingredients. However, we are satisfied that, those who will give the pure unleavened bread a fair trial will have little inclination to return to the use of the former, as they will find the other more needed by nutritions whole. will find the other more palatable, nutritious, wholesome, and economical.

# Preparing Salted Meats.

To the Editor of THE CANADA FARMER:

Sin .-- Herewith I give you my method of preparing salted meats for cooking:—Take your pork or beef from the brine, after rinsing it in clean cold water, place it in a large vessel—an earthen crock is pre-terable—then cover it with cold water, allowing it to freshen at least two days, changing the water on it morning and evening in summer, and mornings only in winter; take your meat out of the water and hang it in a cool, dry place, and it is ready for boiling, roasting or frying. This is much better than the extravagant method of par-boiling every time you wish to use it, and throwing the rich liquid in the slop pail, or throwing it away altogether, as I have known every waterful presents of the slop with the state of the slop pail. some wasteful persors do.

To PROTECT DRIED FRUIT FROM WORMS.—It is said Note—This makes delicious bread. It may be improved by beating the batter in the same manner as eggs are beaten, for two, ten or different minutes; the longer the better. No definite rule as to the proportions of flour and water can be given, owing to the difference in the absorbing power of various brands of flour. Many persons have failed of success in making this bread from reglecting one very essential requisite—the size of the pans in which it is taked. If they are larger than the dimensions given, the bread will be heavy. It smaller, it will be dry and hard. But made this size, and filled evenly fail, if the batter is of the right consistency, and the oven hot, they will use one half, and be almost as light and porous as sponge take.

To Clean Paper Hangings.—Put a clean, soft or an old pillow-case, over a new broom, and ge brush the dust from the paper; then take cru stale bakers' bread, and wipe it down lightly ginning at the top. If you rub it the dirt will an that dried fruit put away with a little sassafras bark (say a large handful to a bushel) will keep for years, unmolested by those troublesome insects, which so

To CLEAN PAPER HANGINGS .-- Put a clean, soft bag It shaked. If they are larger than the dimensions given, the bread will be heavy. It smaller, it will be dry and hard. But made this size, and filled evenly fall, if the batter is of the right consistency, and the oven het, they will rise one half, and be almost as light and porous as sponge, cake.

No. 2.—DIAMONDS.—Pour boiling water on Graham flour—stirring rapidly till all the flour 18 wet. Too much stirring makes it tough. It should be about as thick as can be stirred easily with a strong iron spoon. Place the dough with plenty of flour upon the moulding board and knead it for two or three minutes. Roll out one half an inch thick, and cut it in small cakes or rolls. If a large quantity is required, roll washed, to where the paper with a covered broom, as above directed. above directed.

To Wash Flannel without Shrinking.-Make a strong suds and put in your flannel or white woollen stockings, while the water is boiling hot. Then squeeze and pound them with a pestle till the water is cool enough to put your hands to the work. You will find that there is little need of rubbing. Ringe in water as hot as the hands will bear. If there is a little coap representing is the ringing and of the little coap representing is the ringing and of the little coap representing is the ringing and of the little coap representing its the ringing and of the little coap representing its the ringing and of the little coap representing its the ringing and of the little coap representing its the ringing and of the little coap to the little coap representing its the ringing and of the little coape. No. 3. —Gratian Biscuit.—Make Graham mush as better. The sooner they are dried the least they will for the table. When cool, mix with it Graham flour shrink. This method, from an old housekeeper, is sufficient to roll well. Knead for a few minutes, roll sure to prove just the right way, if strictly followed. three-fourths of an inch thick, cut with a common —Pletcman.