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little thought as to whether they shall cloths, etc In summer, on the other hand, yeast and mould germs and bacteria are everywhere, floating through the air, busily engaged in working wherever sufficient of which do not support bacterial cient warmth and moisture warrant their Very tiny indeed these "germs" are; little micro-organisms too small to be seen with the naked eye, yet none the less real for all that. Under a strong microscope you may see them plainly enough, resembling little rods and

of plants rather than of animals. At any rate they grow and reproduce with tremendous rapidity, working good or ill as their species may direct. Some of them cause milk and cream to sour, and develop the peculiarly pleasant flavor of good butter and cheese; others make fruit ferment; or, if over-developed, cause bread to sour; yet others work worse destruction, causing decay and

spirals, and "worms" of all sorts, al-

though scientists tell us their nature is

putrid odors and disease. For this reason, then, the question of how to care for food becomes very pressing in hot weather, and perhaps, Because of carelessness or ignorance in to-day, we cannot do better than give the disposal of these excreta, they find you a few hints from a bulletin issued last year by the U. S. Dept. of Agricul-

Molds, yeasts and bacteria, says the writer, may be found in the cleanest room, but they exist in far greater numbers in dirty quarters; where, for instance, crumbs of food have been allowed to decay and dust to accumulate. Not that milk becomes, next to water, the only do the micro-organisms appropriate great carrier of typhoid. Flies and dust our food, with the result that the food sours, rots, or putrefies, but they sometimes, in addition, leave behind disagreeable consequences, like the musty and moldy odor and flavor of some spoiled foods, or the substances called ptomaines, which are sometimes poisonous. The housekeeper's success in preserving food from deterioration depends very largely on her ability to reduce the for drinking, but also for cleaning the number of these forbidden guests to the teeth and washing fruits, vegetables and lowest possible limit, hence the science dishes. of bacteriology has given us a new meaning for the scrubbing, airing and sunning that for many generations good housekeepers have practiced.

Yeasts grow best at a temperature of 70 to 90° F.; therefore food that is to be protected from their action must be kept well below this point.

The first requisite to prevent molds is absolute cleanliness in the storage cloth for dusting. This is not to be attained by the use of soap and water alone. Fresh air, sunshine and whitewash are impor- Milk in a clean grassy field, or in a clean and dried; but the undue use of and clothes of the milker to be clean; water should be avoided, as moisture is udder and flanks of cow to be wiped off one of the chief requisites of growth. A with a damp cloth before milking; all cellar may be kept dry by placing in it milk vessels to be washed with cool crumbles apart it will take up no more and sunned inside; milk to be cooled as moisture and must be renewed.

To keep fruit, rub it with a clean time of using. apples in fall-then wrap each in paper and store in a cold place.

ucts are especially subject to bacterial ize the grocer who exercises cleanliness action they must be given unusual at- in his shop. soon as possible after purchase, or sub- be sure that they are fresh and clean. jected to the following conditions: Utensils that come in contact with them must be scalded or boiled. The hands secure good ventilation. Partition off a and clothing of the worker must be kept room or cupboard for such foods as clean. Of cooked foods, moist vege tables, cooked fruits, moist-made dishes, Keep the whole cellar scrupulously clean. like meat pies, are particularly liable to "spoil," and the importance of clean every day with a dry cloth, and once a utensils, of keeping the foods protected week thoroughly scald the sides, shelves from dust, etc., cannot be too often pointed out. . The temperature at actual contact with the ice, which may which food is kept should be reduced to not be pure. Always empty any opened that best suited to it, which is usually canned goods into a dish before putting as near the freezing point as possible. in the ice-box. days in perfect condition. . . Since may make a cool-box in this way: Take bacteria develop well in moisture we may a wooden box with a sound bottom and preserve some foods, such as fish, meat, invert it. Tack a layer of cotton batexcept a few that are very resistant to to keep the cloth saturated. eat. The pasteurization of milk, canof fruit and vegetables, are exam to keep in good condition. les of foods kept from spoiling by this method. . Most varieties of hacteria are killed in a few hours by direct sundaine, hence the necessity for sunning best of all.

can keep foods cold enough you need take and airing of rooms, halk vessels, dish-

Lastly, we may often make use of substances, such as heavy sugar syrup. vinegar, spices, salt and wood smoke,

PTOMAINE POISONING AND DISEASE

Often very slight bacterial growth is sufficient to cause what is called ptomaine poisoning, which may be violent, or may result in summer complaint. Certain apparently mysterious cases of illness have been traced to such sources, and milk, fish, meat, cheese, baked beans, ice cream and other foods have all been found responsible for "food poisoning." Hence the necessity for having food either entirely fresh or absolutely well preserved is apparent.

The so-called "germs" of typhoid fever, diphtheria and tuberculosis are bacteria, and as they may be conveyed by means of water or food this danger is a very real and very serious one.

The germs of typhoid fever are voided in the feces and urine of the patient. their way into brooks, rivers and wells. Such water when drunk or used to wash milk cans may readily cause typhoid. The germs are also distributed by carelessness from the hands and clothing of persons nursing typhoid patients. If any of these germs find their way into milk, they develop with wonderful rapidity, so are also disease carriers, and every precaution should be taken to prevent their existence.

If the water supply is not known to be well guarded from pollution the existence of a disease like typhoid fever in any locality requires that all water be boiled to destroy bacteria in it, and that this boiled water be used not only

A FEW PRACTICAL RULES.

1. As dust is a bacteria-spreader, keep it down as much as possible while sweeping by using bits of damp newspaper or sawdust on the floor, and before sweeping cover all food and dishes, leaving them covered for some hours, as the light organisms will be floating about in clouds for that time. Use a damp

2. Exercise scrupulous cleanliness in all operations connected with the dairy. Shelves should be washed stable as far as possible dustless; hands When the lime water and washing soda, then scalded quickly as possible and kept cold until

cloth—this applies more particularly to 3. Wash very carefully any exposed soft foods bought in stores, such as dates, figs, etc. All of these, you To Check Bacteria:—Since succulent sure, have been exposed to dust enough fruits, milk, raw meat and meat prod- at some stage of their existence. Patron-

4. Grow your own vegetables, and so

5. Have a well-drained cellar, with cement floor and plenty of windows to

6. Wipe the inside of the refrigerator

7. If you have not a refrigerator, you preserve some roods, such as hish, meat, invert it. Tack a layer of cotton bat-vegetables and fruit by drying them, ting over it and cover with coarse cloth. often in combination with salting and It is now to be kept wet constantly, so smoking. . Again by exposing food you may suspend over it a dish with a to 150 to 160° F. of heat for half an few very tiny holes in the bottom, filled hour all varieties of bacteria are killed with water, letting enough drip through

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