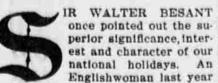
THE REPUBLICAN, CUSTER COUNTY, NEBRASKAS





discovered the beauty of our Memorial day. She was a guest in an old New England town, and missed nothing, either of preparation or observance.

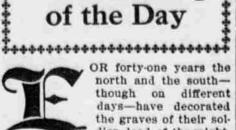
She helped gather flowers for the children, who came begging them all day, and listened to their confidences: "My grandfather, he was a soldier. There's flowers and a flag on his grave, anyway, but we bring flowers, "This basketful's going to the too." ladies of the post; they're making up bouquets at the hall." "No'm, these ain't for the soldiers; they're for our baby. I've got enough to most cover the mound, it's so little." "My, them laylocks'll look fine on teacher's desk! Yes'm, we decorate for the exercises, and take 'em up to the cemetery afterward."

On Memorial day she attended the exercises; saw the rows of young faces turned attentively toward the fine old man in faded uniform, who spoke well and simply of the duties of a citizen in war and peace; heard the children sing; saw them salute the flag.

Then came the procession-the old soldiers, most in carriages, a sturdy few on foot; the town officials; the militiamen; the boys' brigade; the fire company. With the crowd she followed to the ancient buryingground.

She saw blossoms and little waving flags placed where lay men who had served in the Spanish war, the civil war, the Mexican war, the revolution, and under a quaint stone, lichened and aslant, a soldier of King Philip's war; not one forgotten, not one neglected. She observed how everywhere, in every burial-plot, there were more flowers; how, naturally and simply, the day was coming to be one of remembrance, not of soldiers, only, but of all the honored and beloved dead; how friends, meeting among the fragrant paths, talked quietly of those gone, or of the great historic days; or noted with appreciation the grace of memorial garlands or the beauty of clustered flowers.

It happened that she was a woman who had seen parades and pageants and state solemnities in many lands. She had kept very silent, and her friend, fearing that, to her too-experienced eye, the dignity of the occasion might have been impaired by occasional crudities and rusticities, and decoration here and there in ob-



dier dead of the mightlest war of modern times and the greatest war of all time in the cause for which it was fought. In the beginning the south, honestly and sincerely believing that it had a right

to withdraw from the union, proposed to exercise this right peacefully if it could, forcibly if it must. Its complaint was that the north would not in good faith keep the national laws made to protect the domestic institution of the southern states-slavery -and was continually encroaching on it with new laws, and the south wished a separate government in which such laws would be supreme. The north insisted that the union was indissoluble; that once having entered it, states could not withdraw. As a question of law, this could never be settled.

It is pitiful to see how our fathers for years argued and demonstrated and quibbled over an interpretation while in the background loomed the real question, dimly discerned, never wholly confessed, and ignored, as much as possible; while as if to drown consciousness the talk about "interpretation of the constitution" grew ever louder, until the south struck. It ordained the dissolution of this union and fired on its flag. Then rose the curtain on the red drama that cost a million lives before the curtain fell.

Confused in the beginning, the theme gradually unfolded, the background became clear and the protagonists were disclosed in deadly strife, not over a petty text, but over the question of human freedom versus human slavery. The fathers had eaten the sour grapes and the children's teeth were set on edge. There could be no compromise. As long as this country was to be the heritage of those that made it, the one idea or the other must prevail. Freedom won-in a blaze of glory, with a trail of reflected light, seen clearer this day every year, as the diminishing ranks of the boys in blue march to lay flowers-the rue of sacrifice and rose mary for remembrance - on the graves of "Those that have died al ready."

. This is the personal possession of the union soldier-that he fought for the cause of human freedom. And Memorial day has this wider and unique significance that it is not merely in memory of brave men who tion" for a cause they believed was warmth. Cold, like dryness, will not



TE hear a great deal about bacteria, or germs, as they they really are. Although they are

so small that it would take several thousand together to make a spot large enough to be seen with the naked eye, yet their importance to the farmer is not measured by their BIZE

Bacteria are tiny plants, each composed of a single cell. These cells are of various shapes and sizes. Some are round, some long and some shaped like a corkscrew. Some are found singly and some in groups. Some

cannot move at all, some move by twisting themselves about, and still others have long, tail-like flagella by which they move themselves along, Bacteria are made up of a clear, jellylike material called protoplasm. This protoplasm is surrounded by a harder cell wall. There is a great difference in the thickness of these cell walls, and on this thickness depends to a large extent the ability of the germs to withstand unfavorable conditions. Those with thin cell walls can be killed easily, while the thicker walled kinds are very difficult to exterminate.

Bacteria propagate themselves by dividing. One cell divides into two. Each of these two grows to full size and divides again, and so on. Under favorable conditions this process may be repeated every half hour. At this rate the descendants of one germ would in ten hours number more than a million.

At times the part of the protoplasm of a germ will gather into a round, comparatively hard mass, called a spore. The rest of the cell then crumbles away. This spore is inactive, but possesses much greater powers of resistance than when in the active state. These spores often remain alive to start the infection afresh after the active bacteria have all been killed by disinfection.

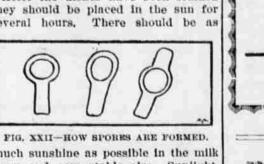
Bacteria, like higher plants, have definite requirements for growth. One of the most important of these is moisture. Drying will not kill bacteria, but it will stop their multiplication. An-"gave the last full measure of devo- other essential to bacterial growth is

often found in milk that are not. The first variety will always be plentiful are more popularly called, enough anyway, and the others should but few people know what be kept down to as small a number as possible. One of the most important methods

> of doing this is by cleanliness. The milk pails and strainers and the separator should be thoroughly cleaned every time they are used. Mere rinsing with cold water is not enough. Following the ordinary washing by scalding with boiling water is the only sure way of killing all the germs. In cleaning dishes a brush is much better than a rag, since it can be more easily cleaned itself. A dish rag remains

damp for a long time after it has been used and furnishes an excellent place for bacteria to grow. The "dish rag flavor" caused by these can often be detected in butter.

After the dishes have been scalded they should be placed in the sun for several hours, There should be as



much sunshine as possible in the milk room and cow stable also. Sunlight, which is so necessary to the growth of the higher plants, is fatal to bacteria. The stable where the milking is done should be cleaned and aired every day. A coat of whitewash should be applied occasionally, as in addition to being a good germ killer it also makes the stable much lighter. Hay should not be fed immediately before milking, as the dust from it is covered with bacteria. The udders and flanks of the cows should be kept perfectly clean. A little dirt falling from them into the milk will take with it thousands of germs. The milk should not be left in the barn after it is drawn, but taken immediately to the milk room.

Many creameries and city milk dealers practice pasteurization. This simply consists in heating the milk to as high a temperature as possible without scalding it. This kills most of the germs, and the few that are left will not develop rapidly enough

Great Bargains

The Joke will be on you if you buy before

you see the following:

Farm harness	4	÷.,		\$23 and up	
Disc Harrow -			÷	\$23 and up	
Harrow 3 sections				\$15.50 and up	
Sulky plows -	×			\$35.00 and up	
Gang plows -	1.1			\$55.00 and up	
Breaking Plows				\$9.50 and up	
Corn Planters .				\$34.00 and up	
Cultivators -				\$14.00 and up	
Wagons, a few left				\$65.00 and up	
American Hog Fen	ice.			22c and up	
Fine top buggies			÷.	\$55 and up	

See the Clover Leaf manure spreader. Its a beauty.

Our motto: To sell as low as the lowest. Quality considered.

W. APPLE

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The best advertised store in any city any time.

The merchant who makes his store-ads, the most interesting and important and convincing things in this newspaper-or in a majority of its issues-will make his store the most interesting and the most prosperous in the city.

Can you imagine any case at all in which that would not be true.

would'nt you rather be the owner of the best advertised store in the city-or any other city-than of ANY OTHER STORE.

Another Good

LAND OFFERING

On May 22nd the Government will open it's second tract

expressed ill taste, trusive doubts.

Englishwoman. said the "No." "Where all take part, there must be flaws like that. They are nothing. When I think that every year, everywhere in your great country, there are scenes like this, in a spirit like this-I believe I have never in my life seen anything so beautiful."-Youth's Companion.

Grow Too Old for Parades.

As a day celebrated only by veterans of the union army, Memorial day is rapidly slipping into the past. The veterans are growing too old for the parades which, until within a few years, were its most conspicuous feature. In the south, where Decoration day was formerly observed on different dates in different states, the custom has grown of celebrating May 30, which until recently was an exclusive anniversary of the Grand Army of the Republic.

right, but that that cause was human freedom! It abides. We that come after them have a like battle to fight. and the same old foe with a new face. All slaves are not black. All slavery has not the outward and visible signs of dungeon and the lash. We are still, as Lincoln said on the field of Gettysburg, "engaged in a great civil war testing whether a nation-conceived in liberty and dedicated to the proposition that all men are created equal-can long endure." And in this war north and south

clasp hands and stand shoulder to shoulder

Common to All Americans.

In many parts of the south Memorial day is now jointly celebrated by survivors of the blue and the gray, and the custom is growing. As the country comes more and more to cherish as a common inheritance the valor. fortitude and self-sacrifice of that conflict, it will become universal.

GOMENT WE WAS A DESCRIPTION OF THE OWNER OWNER

the souring of milk or the spotting of meat, which is caused by bacteria, goes on much more slowly or not at all when they are kept in a cold place. One of the principal foods of bacte rla is nitrogen. Without it they cannot live. Because of this fact sugar and lard, which-contain no nitrogen, never spoll. Bacteria also require oxy gen, though only certain species are dependent on the air for their supply One of these is the kind that causes meat and vegetables to decay. This is why canned fruit and vegetables do not spoil. The bacteria have been

killed and the oxygen driven off by heating. The few germs that do get in before the can is sealed up cannot develop for lack of air. If the can is not air tight, however, some oxygen will find its way in, the germs will multi ply, and the contents will spoil.

Not all bacteria are injurious. Al though some of man's most deadly en emies are found among these invisible micro-organisms, yet many of them are his best friends. We have already learned about the bacteria that live on the roots of legumes and change the nitrogen of the air into a form in



FIG. XXI-SOME TYPES OF BACTERIA. which it can be used by plants. The rotting of manure and trash to make humus and of humus to make the elements of plant food available is also due to the action of bacteria. In this way bacteria, by making animal wastes available for plant food, complete the circle of plant and animal life.

The putrefying bacteria, or those which cause rotting, are more beneficial than harmful. By their action dead animals and other refuse matter are quickly reduced to the elements from which they were made. Even the odor given off during the process is also beneficial as a reminder that the matter of burying or burning has been neglected.

Other micro-organisms in the form of yeast are a necessary help in breadmaking. The yeast plants, growing in the dough, set free considerable amounts of carbon dioxide. This gas in trying to escape fills the dough with holes and spaces, making it "rise."

The bacteria which cause milk and cream to sour are also useful. Butter made from sweet cream is lacking in flavor, and there is not so much of it, since the globules of butter fat do not collect as readily as in sour cream. But, while the germs that cause milk to sour are harmless, there are others

kill them, but it will stop them from much harm. In creamerles a startermultiplying. This is the reason that that is, a portion of milk which contains a particular kind of bacteria-is added after pasteurization and the cream then "ripened" for twelve hours or so. By thus supplying germs which are known to produce desirable flavors and killing the others butter of very high quality may be made.

There are bacteria everywhere-in of 12,000 acres of perfectly irrigated land in the Big Horn the soil, in the air and in the water. Basin, near Garland and Powell, Wyoming. This irrigation By far the greater number of these are harmless. Even disease germs project of the Government is first-class and reliable. This are unable to obtain a foothold in a and is adjacent to and along side of the Burlington Road. perfectly healthy animal or person. The secretions of the mouth and the digestive organs are fatal to many of out of danger. The blood contains large numbers of white corpuscles, which seem to have no duty to perform but to seize and destroy these

invaders. It is only when an animal becomes weakened from one cause or another that these corpuscles fall to do their duty and the germs begin their

destructive work. The first step in avoiding infection by disease producing bacteria, then, is to keep the animals healthy by proper feed, exercise and shelter. The next point is to do everything possible to prevent the germs from getting into the animal's body.

In case a contagious disease of any sort appears the sick animals should be shut up by themselves as far as possible from the rest of the herd Disinfectants, such as coal tar dips and bichloride of mercury (one part of the chemical, two parts salt and 1,000 parts water), should be used

freely. Care should be taken not to carry the germs from the sick and mais to the well ones while caring for them. Wounds, such as wire cuts, need especial care to prevent infection. Or-

dinary disinfectants are too irritating. yet something must be done to keep the bacteria from attacking the raw

The germ problem, like the problem of weeds and insects, is easily solved if it is gone at in the right way Cleanliness, sunlight and disinfection will do much to hold the injurious ones in check, and the others need no encouragement to continue doing their invisible though none the less real work to help us. There is no espe cial reason why the germ problem should be made a matter of constant uncasiness on the part of the farmer.

ordinary agriculturist to be diligent in

intrenching himself behind cleanliness.

Thus fortified he will have little occa-

sion to make a special study of bac-

teria. Let the scientists do that.

surfaces. Keeping the wound bound up tightly and sprinkling daily with powdered iodoform is one of the best ways of insuring rapid healing.

It requires a scientist to discriminate between bacteria that are injurious and those that are necessary, and in the meantime it is sufficient for the

Powell and Garland are prosperous towns- The community is absolutely first-class, and there is not a better place to them. Even if they succeed in get-live in the whole west for climate, sunshine. productiveness ting into the blood they are not yet of soil and many other good reasons, than the Big Horn Basin. This land is \$45 an acre in ten annual installments without interest. 320 ACRE MONDELL ACT:-Select locations for home-

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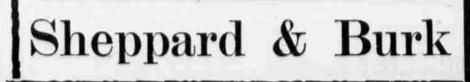
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