THE GENERAL DEATH RATE

A VERY STRIKING REDUCTION IS SHOWN BY FIGURES.

All Due to Better Hygiene-Ettlity of Warm Water in Medicine, Its Double Action and Reneats-Black and Red Eggs.

Observance of the rules of hygiene has for its result the decrease of mortality, writes a correspondent. In every country statisticians have taken pleasure in showing the results obtained by figures. Sir Joseph Ewart has proved beyond dispute that in England particularly the death rate was lowered; that the mortality caused by certain special diseases has diminished, and that there is a disappearance or, at the least, a very great reduction, in the death rate of some mala-

the following five year periods, ending with that of 1891-1895, the death rate per thousand from all diseases amounted to 22.22, 25.58, 22.42, 21.96, 20.79, 19.-40, 18.90 and 19.04. And it must be noticed that of late years ...fluenza has swelled the death rate.

It is particularly the death rate of cities that has diminished. Thus, from der a simple form, albuminoid matter, erage, drainage, better water-accounts for these favorable results.

from smallpox was 219 per million in- capable of furnishing formative matter that the ble the phosphate. It is needless to go habitants. It has fallen to 22 during human economy, even the osseous tis- into the actual fertilizer needs of difthe period 1891 to 1893 Between the sue. same periods there is a reduction of typhoid fever, typhus and some other ill defined continuous fever.

to 1894 it fell to 135.2. The municipal measures taken to provide pure drinkkept upon milk are in great part, the How is it possible for the yellow to as-Ewart, by personal investigation, be- days. came convinced in 1894 that out of 56 attributable to oysters and 12 to other taken by the Local Govern-Board with a view to purify-

From 1871 to 1875 typhus caused 81.4 deaths per million, and only 2 from 1891 to 1894. This disease, due particularly to crowding,

ALMOST DISAPPEARED,

Phthisis shows, from 1856 to 1860, a mortality of 2,565 per million, and from 1891 to 1893, a reduction to 41 per 1,000, or 1,512. General hygiene -improvement of food, increased comfort, better habitations-has its share in this progress, but special indications months before he regains his former have also contributed to these excellent results-disinfection of spittoons, care in the cooking of meat, prohibition of meats and milk from tuberculous animais.

of diphtheria, and the same is the case harm's way. The basket raised a few will take several hours before the horse with measles, scarlating influences as with measles, scarlatina, influenza, and feet and then stopped. Soon it began can safely be removed, as in the proc-

aria. Scurvy is no longer a terror on when the tremendous charges of pow- of the mouth and ears, not infrequently the ships or in the colonies of England. der were exploded. When the basket practiced by drivers who are frightened Leprosy, after having been endemic for was within four feet of the bottom of and do not know what to do are useless over thirteen centuries, with its max- the shaft the fuses could be heard latest cases in the eighteenth, has al- a few seconds would elapse before the then in a condition where rest and quiet most disappeared. While the plague blasts were discharged. has not made its reappearance in Eng- Kendall jumped from the basket, and prevention of sunstroke lies in the judiland, it has made and is even now began pulling the fuses from the making ravages in Great Britain's In- primers, which were to explode the fact that the rules of hygiene Kendall had extinguished five of the whereas the man who hurries or other-

ous forms, into three districts, nowhere tinguishing his light, Then there was the present time, when perspiration has it spread, because nowadays every has it spread, because nowadays every nothing but the spitting fire to guide and dust easily irritate the skin. The representation is taken by the local nothing but the spitting fire to guide and dust easily irritate the skin. The recal authorities to preserve the drink- "Fortunately," he says, in describ- ings, galls and abscesses, which if not ing water from contamination by the ing his actions, "the shots had been properly attended to from the start may cholera bacillus. It is thus evident cholera bacillus. It is thus evident, put down close together. I was able make the horse unserviceable for weeks from a study either of the general put down close together. I was able to the pains should be taken to from a study either of the general to seize a fuse in either hand. Pro- at a time. Pains should be taken to death rate or of the mortality from cer. death rate or of the mortality from cer- vidence was with me again, for neither wash the shoulders of horses with watain specific diseases, that there is a blast exploded as I drew the fuse from day's work and if there are any visinoteworthy decrease. Much still remains to be done, but the results so far obtained are an encouragement to persevere in the path of progress to persevere perse

WARM WATER IN MEDICINE. Warm water exercises a double physiological action, local and gener- the stopping of the ascending basket al. Locally, it irritates the nerves of was due to the engineer's carelessthe skin, excites the cutaneous circula- ness. He had forgotten to open the tion, owing to the contraction produc- water-cocks in the cylinders, and as a ed in the vessels, which, however, after- consequence the slide valves choked and ward dilate. Its general action characterized by an augmentation of the movements of inhalation and exhalation. The respiratory movements later become less frequent and deeper. which increases the action of the heart and the circulation. The dilatation of the vessels of the skin induces a stronger current of blood toward the periphgans. The chemical properties of the

blood undergo changes.

heat proincreased Upon periphery in the diduced at the there often follows a lated vessels, the general temperadiminution of

For these reasons warm baths have been ordered in fever diseases as derivatives against exudations, to favor sults in cerebral meningitis, in oedema duction will not pay the cost of the fercombined with nephritis, bronchitis and tilizers used. pneumonia, rheumatism and sciatica. Locally, under the form of comforms of conjunctivitis and in sick al hit-or-miss, way of using farmyard

In affections of the heart, prudence in the use of warm baths is nec-

In surgery warm water is used especially in parenchymatous i hemorrhages, but it is effective only when applied to contractile organs. It produces excellent results in the treatment of sprained or crushed limbs. It acts marvellously on atonic sores, which it excites to cicatrization, on and anthrax. It limits the inflamma-Thus, from 1858 to 1860, and during tion and circumscribes purulent ab-

stop suppuration. For all these reasons the use of warm water in therapeutics cannot be too highly recommended.

BLACK AND RED EGGS.

There is not, so far as I know, any aliment more appreciated than Their value is known to all. milk, they offer to digestive action, un-From 1858 to 1860 the death rate characteristics of a complete aliment, own so cheaply. For fruit and vege- owner. capable of furnishing formative mater- table crops, the potash must nearly dou-

of the hen, and, more rarely, those of lished tables of analyses of the prinfrom 792 to 191 deaths per million the guinea fowl, the duck, the turkey cipal crops, and farmers will do well to bicycle is the development in women of from the group of fevers, inclusive and the plover. The quality of the consult these tables. eggs varies somewhat according to! After having determined the proper which must be ascribed the black col- lar crop, we come to a matter of ful- wheels, but while passing along crowdthe food eaten by the bird, and to proportions of fertilizers for a particu-From 1871 to 1875 the typhoid mor- oring that may be observed in ducks' ly equal importance—the proper time

seen in hens' eggs. As every one knows, eggs are composed of a yolk swimming in a white ing water in the towns, and the watch or albumen and enclosed in a shell. cause of this improvement. For some that ducks particularly eat oak glands. time past attention has been drawn to Now, these glands are very rich in shellfish-by oysters taken from beds the chemical combination of these two follow your corn this year with crimthe propagation of typhoid fever by tannin and the yolk is rich in ironresults in tannate of iron, which pro- son clover, the potash and phosphate affected by sewerage. Sir Joseph duces ink, the good black ink of olden

No explanation has yet been given, cases of typhoid fever 22, that is 42 to my knowledge, at any rate, of the fact that hens fed on crayfish shells, per cent., were due to the contamina- which they like immensely, lay eggs tion of shellfish by very impure wa- the yellow of which has a bright red ter. In 1895 out of 56 cases 7 were coloring. But that is a fact placed be-Are these black or red eggs offensive?

shellfish. These facts justify the mea- I do not think the eating of them should cause any injury to the health; but I do believe that they are of inferior quality, and that for this reason ing the beds in which the oysters they should be avoided. As a matter of fact, it is a rare thing to come across these eggs.

IN A MINE ABOUT TO EXPLODE.

save in a small number of large The Foreman, Imprisoned and in Darkness, Extinguished the Fuses When Almost Burned to the Powder.

John Kendall, who was recently the foreman of a mine at Rossland, B.C., lately underwent an experience that has left him a physical wreck. His nerves were shattered and it will be

Kendall and four other men lighted the moved to a shady place and freely short fuses under eight charges of sprinkled with water, head and body. giant powder in the True Blue mine Sponging the mouth and nostrils with Hygienic or sanitary measures do not and then jumped into the basket to water or with vinegar and water will appear to have reduced the death rate be hauled to the surface and out of revive the animal. In ordinary cases it Cultivation of the soil and drainage settling, and it looked as though the ess of recovery it is liable to stagger have almost entirely got rid of mal- five men would be blown to atoms and fall. The sacrifying and bleeding

were misunderstood, that Bombay has been invaded by the plague from China.

As for cholera, although it has re
Rendall had extinguished in the shaft of the shaft wise abuses his horses invites sunwhen he heard the preliminary sputtering that betokened the immediate of drivers and foremen of barns to the explosion several feet away. He cently been imported, in its most seri-ons forms, into three districts, nowhere

to persevere in the path of progress say they found me doubled up at the upon which science has set a resolute bottom of the shaft, with the fuses of the last two holes clinched tightly in

my hands." It was afterwards discovered that would not act.

NO DISCOUNT ON THEM. She-How can I ever repay you for your kindness! He-With kisses. She-How much do you value them He-I'll take them at their face val-

THE FARM.

PROFIT IN FERTILIZERS.

Without question, fertilizers increase crops, but it is easily possible to so use the fertilizers that the increased pro-

With a proper use of fertilizers thirty bushels of wheat per acre may be in cerebral apoplexy, in certain regularly gotten, where, with the usumanure only about fifteen bushels can be depended upon. Ten dollars' worth of chemical fertilizer, properly proportioned and properly used, will undoubtedly produce a crop worth far more than ten dollars. Twenty dollars' or even \$100 worth of phosphate alone, applied per acre, would not double a crop as compared with an unmanured acre, nor would an excessive quantity of potash alone prove beneficial. On the contrary such applications would injure the crop and prove worse than no manure

of nitrogen without potash and phosphates. All of the reputable official fertilizer experiments show that complete fertilizers are necessary, and that potash and phosphates must be used

economy of life. Eggs present all the ey for nitrogen when he can grow his of profit instead of an expense to the The eggs most used for food are those periment stations have frequently pub-

tality was 378.8 per million; from 1891 eggs, and the red tint that may be t ouse them. All forms of nitrogen should be applied closely after seeding time. Good growing weather means good weather for making refuse ammoniates available. In the case of nitrate of soda, applications are frequently made after seed planting. Potash and phosphates should be used before seeding, probably some months before. For example, if it is intended to sible after the corn is seeded. There is very little danger of loss from drainage, and by the time the young clover is ready to use the mineral fertilizers to enable it to store up nitrogen, it will find them at hand in forms suitable for immediate assimilation.

By all means apply the mineral fertizers for next year's early potatoes, late the coming fall; it is perfectly safe to apply in the fall, and perfectly safe to broadcast. For wheat, use a fertilizer containing say 2 per cent. of ammonia, ther. 6 per cent. of potash and 6 per cent. of phosphoric acid applied with the seed.

Next spring, apply 150 pounds of nitrate of soda per acre as soon as the last snow is well out of the way. This day! is the way the French farmers get the 80 bushels of wheat per acre, which seems almost impossible to our farm-

Mix right and use right solves the problem of fertilizing with chemicals, but do not feed niggardly; con't try to get something for nothing.

OVERHEATED HORSES.

The symptoms of overheating are easily noticed, as the horse will suddenly stop and refuse to work, or in more severe cases stagger and fall. The horse It was about three weeks ago that should be unharnessed at once and reand senseless and only excite the horse. cious care of the horse at this particular time. The patient and careful driv-

bolic salve or other disinfecting ointment should be applied. Horses in this condition should be kept from work until the wounds are healed, although in the cases of small sores pads of straw or felt may be attached to the collars or other harness parts in such a way as to prevent further irritation and pressure. If this can be accomplished, the sores will heal, while at the same time the horse may be moderately worked. We would also call attention to the too free use of drinking fountains. In

UPWARD TREND OF DAIRYING. The old proverb that he who makes two blades of grass grow where only

a time.

great heat the horse should be allow-

ed to drink frequently, but a little at

one sprang up before is a public bene-factor, ought to be widened in its scope so as to take in the dairyman who, by careful management increases the value of his herd.

It is no slight achievement to have been able to take a lot of poor cows which scarcely paid for their keeping and bring them up to the point where the quantity of milk produced is from one-fourth to one-half greater than at first, and the value of the product increased in still greater proportion. This is what many herdsmen have done and are now doing.

The man who is satisfied to drift along in the old way is unwilling to believe the reports of those who have built up their dairies, from small beginnings to a place of profit. "Stuff and nonsense!" he says: "I know that no cow can be made to produce four hundred pounds of butter in a year. Why, that is more than any four of my cows will do, and they are good ones, too!" We may well believe this latter statement if we visit his farm and note his methods. Cows selected with no idea of their true value as milk or The same is true of an excessive use butter makers; poor pastures; scanty out-of-date appliances in the house; slipshod ways of caring for milk, and butter; no dairy paper on the tablecan't afford to take it-these indicate truthfully the state of this man's busi-

And still, we do not know that many the country there were 126 in the to those which enter into the composition of the blood. Albumen is found in clovers, cow-peas, field peas, etc. For all grain crops the fertilizer possible to start with just such a herd urban hygiene- street paving, sew- in the muscular meat of the ox. Con- must contain fully as much potash and las has been described, and, by making Small birds up to Sparrow size. \$100 drinking sequently, there are united, in one phosphoric acid; a small amount of ni- it a study, so elevate the capacity of aliment, substances which play an im- trogen is always advisable, but the far- the individual members of the flock, portant and very general role in the mer cannot afford to pay much mon- that in a few years it will be a source

THE LADIES ARE LEARNING.

Among the hitherto unnoted benefits conferred upon humanity by the Fox, Lynx, etc. . . the road," not only when riding on their places, where, until recently, the feminine habit has been to inconvenience other people as much as possible. This habit, usually ascribed to stupidity, but really due to lack of that instinctive courtesy, as distinguished from acquired courtesy, which is the one trait setting men apart from women, has been much weakened by the absolute necessity imposed upon all bicyclists of giving to others a fair share and the right share of the road. Non-riding women still cling to the old, bad way, but a marked improvement is visible in the younger representatives of the inconsiderate sex.

HELPING MOTHER. Minister-Ah, Tommy, is that you?

I trust you are always a good boy, Tommy ? Tommy-Yes, sir.

Minister-That's right. I am sure you are always kind to your good mo-Tommy-Yes, sir. I was helping her

vesterday. Minister-Very glad to hear it. Tommy, What did you do for her yester-

Tommy-I helped her with the washing sir. She said she couldn't get on with the washing if we didn't take our dinner an hour sooner, and I took it as soon as she had it ready.

MORPHINE IN FRANCE.

The injection of morphine is a habit that is, unfortunately on the increase in France, especially among the middle classes. On statistics furnished by the pharmacists it is estimated that there are in Paris at least 50,000 victims of the morphine habit, the majority of whom are women.

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