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The multiplication of the microbe is marvelous. Competent authority asserts that one of these minute creatures will produce in one day, if the conditions are favorable, some sixteen millions of descendants, and in three days the production will approximate fifty trillions. We may compute the number but never comprehend it. We have no concrete measure for such figures.

To apprehend in some measure the amazing rate and rapidity of microbial increase remember that in this twentieth century the population of the entire world is figured at less than one billion and a half.

The one emphatic point in this statement of marvelous multiplication is this: "If the conditions are favorable." The most dangerous microbe cannot injure man unless the conditions are favorable. It is conceded that we inhale these microbes every day without injury, that we receive them into the body with the water we drink and the food we eat and suffer no harm, the reason being that the conditions are not favorable to microbial propagation. It becomes a great question, therefore: What are the conditions favorable to the propagation of disease microbes in the human body? The answer is, unsanitary conditions. The same law rules the blood that rules the brook: keep it pure and it is healthful; let it stagnate and become fouled with decayed matter and it breeds disease. The prime necessity for microbial reproduction is dirt. Dirt has been defined as "matter out of place." The grease which collects in the kitchen sink is dirt, just as much as the dust which accumulates in unswept corners, and it seems perfectly proper in the scope of this definition to speak of dirty blood.

If you want to keep your blood in condition unfavorable to microbial multiplication, get rid of the dirt in your blood and keep rid of it. For it is, in effect, the clogging and effete substances that foul the blood, which form the breeding-ground of the disease microbe.

The best blood-purifying medicine, at any season of the year—spring, summer, autumn, winter—is Dr. Pierce's Golden Medical Discovery. You don't have to take it on trust. It has cured thousands of men and women, of pimples, blotches, salt-rheum, tetter, rheumatism, ulcers, sores, scrofula, and other forms of blood disease, and cured them permanently.

"For about one year and a half my face was very badly broken out," writes Miss Carrie Adams, of 116 West, Main Street, Battlecreek, Mich. "I spent a great deal of money with doctors and for different kinds of medicine, but received no benefit. At last I read one of your advertisements in a paper, and obtained a bottle of Dr. Pierce's Golden Medical Discovery. Before I had taken one bottle of this medicine I noticed a change, and after taking three bottles I was entirely cured. I can well recommend Dr. Pierce's Golden Medical Discovery to anyone similarly afflicted."

"I feel it my duty to write to you of the wonderful curative powers of your 'Golden Medical Discovery,'" writes Geo. S. Henderson, Esq., of Demond, Lee Co., Florida. "I had a bad sore on my right ear and my blood was badly out of order. I tried local doctors but with no good results. Finally I wrote you the particulars in my case and you advised your 'Golden Medical Discovery,' which I began to take. From the first bottle I began to feel better, and when I had taken eight bottles the sore healed up. I wish you success."

"For three years I have suffered with that dreaded disease eczema," writes Mrs. J. Koepf, of Hermann, Oregon. "I was told to try Dr. Pierce's Golden Medical Discovery, which I did, and after I had taken fourteen bottles I was permanently cured. It has been a year since I stopped taking your medicine and the disease has never appeared since. I think your medicine a wonderful cure, and hope others suffering as I did, will take it and be relieved of their suffering."

"I will forever thank you for advising me to take Dr. Pierce's Golden Medical Discovery," writes Mrs. Jas. Murphy, of Ponda, Pocahontas Co., Iowa. "It has cured me of chronic scrofula of twelve years' standing. I had doctored for the trouble until I was completely discouraged. I also had chronic diarrhea for twelve years. I am in good health now—better than I ever was in my life, owing to Dr. Pierce's Golden Medical Discovery. I took several bottles of the 'Discovery' before I stopped."

Dr. Pierce's Golden Medical Discovery, not only purifies the blood but by enabling the perfect assimilation of food increases the nutrition which is conveyed by the blood to every organ of the body, so producing vigorous and robust health.

Dr. Pierce's Pleasant Pellets assist the action of the "Discovery." Accept no substitute for "Golden Medical Discovery." There is nothing "just as good" for diseases of the stomach, blood and lungs.

ONE CENT A DAY. Save one cent a day for thirty days and it will enable you to obtain the best modern medical work. Dr. Pierce's Common Sense Medical Adviser, containing more than one thousand large pages and over 700 illustrations, is sent FREE on receipt of stamps, to pay expense of mailing ONLY. Send 31 one-cent stamps for the cloth-bound volume, or only 21 stamps for the book in paper-covers.

Address: Dr. R. V. PIERCE, Buffalo, N. Y.

hop field. These conditions put Oregon to the front as a hop state, her rapidly growing cities and development of different lines of diversified farming, will always enable her to secure labor to harvest her vast fields of hops. The hop harvest not only affords an outing for our people but is the greatest financial equalizer in our state, for all ages and sexes can do fair work at a reasonable compensation, and when harvest is finished this year, if he have an average yield, fifty thousand people will earn nine hundred thousand dollars to be distributed among them according to their age and energy.

"This money finds its way quickly to the various lines of business and from the thrifty business man to the little waif all feel the happy results of a good yield sold at a fair price.

"Hop growing is one of the greatest resources of our state, with our 18,000 acreage, for a 1902 crop, and a yield of 1000 pounds per acre, and sold at 12 cents per pound, it will bring to our state \$2,160,000, with a probable import expense of \$100,000 for baling, cloth, sulphur and twine, leaving within our state as a resource from the industry \$2,060,000. Under favorable conditions one might feel that every farmer should have a hop field, and acquire vast wealth by this means, but this is only the bright side of the picture.

Past experience has taught us that there is no industry in our state that will wreck a farmer more completely than a large crop of hops of poor quality, sold at bedrock prices, and many once thrifty farmers have been forced to surrender their happy homes to satisfy the heavy loans with high interest, and bonus, they made to harvest a worthless crop.

"Hops are not purchased at what they are really worth, but at what they can be obtained, regardless of what they cost the grower. Brewers bought what they wanted when they paid \$1.25 per pound for them, and refused them at 2 cents per pound when an over supply was apparent. They have been awake to their interests and have thrown a safeguard around themselves by erecting capacious cold-storage rooms that can and have held our Oregon hops in excellent brewing condition for over two and half years, so when the hops are cheap they stock up heavy, thus forevermore barring the growers from receiving those extreme high prices they sometimes have in times gone by. The brewers are thoroughly organized and are fully justifiable for protecting themselves from such extreme high prices, and are not to blame if the growers offer them their crop at bankrupt prices. In all lines of business we must meet conditions as we find them, and the hop grower must feel that he has the situation in his hands if he will but exercise his brain as energetically as he loses his hands in producing his crop. Organization and co-operation will eventually bring the grower to the front and the cold storage plan will be used to protect the grower when he has raised a heavy crop that his surplus will be cared for if he will but hold the key to the situation, which is, by co-operation.

Before considering co-operation in the marketing of hops, let us note association work in other lines of husbandry. Before creameries were erected and dairy associations organized, our butter was a drug on the market, and in some instances was consigned to the soap grease keg, but mark the change wrought by co-operation. Today our farmers point with pride to the interest they hold in the creamery, and their well filled pocket-books proclaim how well their product is sought in other lands. The Hood River Fruit Association has raised the standard of fruit in Oregon until the name of Hood River fruit is a guarantee for good prices. Our dried prune association of Sulein is fast gaining popularity, and a continuance in the same line will make the 'Pheasant Brand' of dried Italian prunes hold the highest place in the markets of the world. Now, coming nearer to the subject before us, let me briefly rehearse the history of the Hop Growers' Fire Relief Association of Butteville, Oregon. Twelve years ago a few of the energetic hop growers of Butteville, realizing the excessive charges made by old line insurance companies for insuring hops, during the drying season, and while there was no insurance company in the world at that time known to them that gave relief on hops only, resolved to band themselves together for mutual protection, and in case of loss by fire, or lightning, to aid the unfortunate member by bestowing upon him two thirds of his loss, and thus retain in their community the heavy premiums paid to foreign and eastern companies. Notwithstanding the inferior buildings of pioneer structure by the lopping off of expenses at every possible point, by the untiring vigilance of each member over his neighbor's house, for all were interested in a loss, they passed through the first years of its organization at much less than one-third of the cost of other companies. Success gave strength; new members flocked to join, the territory was extended again and again, until today it reaches from the Cascade mountains on the east to the Coast Range on the west, and up and down the hop belt of the Willamette valley for a distance of sixty miles, with a cost of only \$2.50 on each one thousand dollars insured, for an entire year, for the season of 1900, and the same cost thus far for the season of 1901, which will end August 23, 1902. If we have made such marked success in association work on this line, expanding from an almost neighborhood insurance to an area of forty by sixty miles, and reducing the old line insurance of \$2.75 on one thousand dollars for an entire year to \$2.50, why can we not extend our territory to reach every hop grower in our state and thus give strength to the industry? I am confident we can, and sincerely hope we will, since it goes without contradiction that the associations named have proven to be a success, can it be surprising too much to expect that the hop growers of our state can co-operate to the mutual benefit of all concerned?

"While the Oregon Hop Growers' Association was organized in one of the most trying seasons in the history of hop raising in our state, it was far from being barren of good results. The enormous crop of very poor quality baffled the clearest heads and the firmest holders were unable to stimulate the dead market, and the result was that hops sold at ridiculously low prices; but the lowest sales were made outside of the association hops. In hop supplies the association enabled its members to secure them at very reduced figures. In 1900, through the management of the association, sup-

(Continued on page 3.)

ARE YOU DEAF? ANY HEAD NOISES?

ALL CASES OF **DEAFNESS OR HARD HEARING ARE NOW CURABLE** by our new invention. Only those born deaf are incurable. **HEAD NOISES CEASE IMMEDIATELY.** F. A. WERMAN, OF BALTIMORE, SAYS:

Baltimore, Md., March 20, 1902.

Gentlemen:—Being entirely cured of deafness, thanks to your treatment, I will now give you a full history of my case, to be used at your discretion.

About five years ago my right ear began to ring, and this kept on getting worse, until I lost my hearing in this ear entirely.

I underwent a treatment for catarrh, for three months, without any success, consulted a number of physicians, among others, the most eminent ear specialist of this city, who told me that only an operation could help me, and even that only temporarily, that the actual noise would then cease, but the hearing in the affected ear would be lost forever.

I then saw your advertisement accidentally in a New York paper, and ordered your treatment. After I had used it only a few days according to your directions, the noise ceased, and to-day, after five weeks, my hearing in the diseased ear has been entirely restored. I thank you heartily and beg to remain

Very truly yours,
F. A. WERMAN, 700 S. Broadway, Baltimore, Md.

Our treatment does not interfere with your usual occupation.

Examination and advice free. **YOU CAN CURE YOURSELF AT HOME**—at a nominal cost.

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The Burlington ticket office in Portland is a veritable Bureau of Information for travelers—a place where they can learn what it will cost to reach ANY point in America or Europe; how long the trip will take, and what there is to see on the way.

If you are figuring on an eastern trip, drop in and get full information, or, if you prefer, write me about it. Omaha, Chicago, Kansas City, St. Louis—and EVERYWHERE beyond.

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CURE ALL DISEASES OF MEN!



"It is a crime to experiment with the health of the people," says Dr. J. Henri Kessler, manager of the Old St. Louis Dispensary at Portland. "If I did not know positively and absolutely that my new home treatment will cure all disease of men, even when all other methods of treatment fail, I would consider I was committing a crime to make such a statement to the public. Nothing is so precious to a man as his health—nothing so horrible as an untimely grave. Little ill, if not promptly cured, often result in obstinate chronic diseases. I know that my new discovery is the most marvelous treatment ever known, and I intend to give its benefit to the world. I intend that every man woman and child who comes for treatment shall have it. I propose to tell the sick, absolutely free of charge, if they may be restored to perfect health. I would rather be a benefactor to the sick man than to have the wealth of Croesus."

The above are remarkable words, but those who know Dr. Kessler, and have tried his treatment, can vouch for their absolute truthfulness. He restores the wasted power of sexual manhood. He also cures to stay cured VARICOCELE, STRICTURE, SYPHILITIC BLOOD POISON, NERVO-SEXUAL DEBILITY and all associate diseases and weaknesses of man. To these maladies alone he has earnestly devoted 23 of the best years of his life. He makes no charge for private consultation, and gives each patient a legal contract in writing to hold for his promise. Is it not worth your while to investigate a cure that has made life anew to multitudes of men? If you cannot call at his office write him your symptoms fully. His home treatment by correspondence is always successful. Address always enclosing 10 2-cent stamps.

J. HENRI KESSLER, M. D.

St. Louis Dispensary, Corner Second and Yamhill Sts., Portland, Ore.

DOWN THE GREAT LAKES

In the old days the trip up and down the great Lakes was the favorite trip of travelers—there were no tourists then. The boats then used did not compare with those on the lakes, and the trip remains the finest one in the world of its sort.

The Northern Pacific, via Duluth, connects with the Lake Steamers, and a trip on the "NORTH COAST LIMITED"—in service again May 5th—and these steamers, to the Pan-American Exposition at Buffalo, will be something to recount to your children's children.

Send six cents for "Wonderland 1901," ready May 1st, to CHAS. S. FEE, St. Paul, Minn.

Any local agent will quote rates.

MOTT'S PENNYROYAL PILLS They overcome Weakness, irregularity and omissions, increase vigor and banish "pains of menstruation." They are "LIFE SAVERS" to girls at womanhood, aiding development of organs and body. No known remedy for women equals them. Cannot do harm—life becomes a pleasure. \$1.00 PER BOX BY MAIL. Sold by druggists. DR. MOTT'S CHEMICAL CO., Cleveland, Ohio.

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TWICE-A-WEEK STATESMAN, \$1 PER YEAR

HOP GROWING IN OREGON

And the Benefits of Organization and Co-operation

AN IMPORTANT ADDRESS DELIVERED TO THE OREGON FARMERS AT RECENT CONGRESS

By Hon. W. H. Egan, of Brooks, President of the Oregon Hop Growers' Association—History of the Industry in This State.

(From Thursday's Statesman.)

Hon. W. H. Egan, president of the Oregon Hop Growers' Association, at the recent meeting of the Oregon Farmers' Congress, delivered an interesting address on "Hop Growing in Oregon, and the Benefits of Organization and Co-operation," which struck a popular chord, and in response to numerous requests it is printed in full below:

"Oregon was scarcely known as a

hop growing state twenty-one years ago. The industry was a mere experiment, and the inexperienced grower built houses according to his ideas, and far below the standard of our modern styles. Though, no mold or pests then invaded our yards, the grower labored under many disadvantages. The people were unaccustomed to the labor; our state was thinly populated, and grain and stock raising were the popular industries, so the hop grower had to pay extravagant prices for labor to harvest his crop, sometimes being obliged to pay \$1 per box for picking, and other labor in like proportion. Since 1888, Oregon has advanced very rapidly in the culture of hops, and at this date she not only holds the highest rank in the number of bales produced in any state in the Union, but ranks first in the world in the quality of her product, having won the medal at the Paris Exposition, and also at the Pan-American Exposition at Buffalo, New York.

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"From the latest authentic information available there will be 18,000 acres to harvest for the 1902 crop, with a probable increase of 1000 acres for 1902.

"The climate and soil of Western Oregon encourage the industry together with other lines of farming; many advantages are secured by the grower who follows diversified farming, and he is better prepared to stand the shock of a bad crop or price by floating on the resources of some other product; besides there are many opportunities to economize labor by using sheep and hogs as scavengers of the hop field.

"Sheep are excellent gleaners of the lower leaves, suckers and succulent herbage that are common in the hop yard. When the older sheep become troublesome by pulling off the hop-bearing laterals they had better be re-