### HEALTH.

New Hope for Consumptives.

It is now two years since the Kochlymph among mankind than cholera or war; and since his first announcement of the cause of consumption, he, together with a host of other bacteriologists and clinicians, had been engaged in devising some means of destroying this germ, or of rendering it innocuous after its entrance into the human body. The distinguished German pursued his investigation upon the hypothesis that the bacillus itself, produces during its develop. ment, either in its own organism or from the tissues in which it resides, a poison which ultimately destroys it. This is much after the liquid creates alcohol finally in such quantity as to inhibit its growth, or that the germs of putrefaction are self-limited through the deleterious substances to which their activity gives rise.

The lymph which was manufactured and presented to the profession by Koch in the autumn of 1890 was the product of the growth and life of the bacillus of consumption, and the analyses made of it showed that it was composed of a number of organic substances, the chief of which seems to be an albuminous material, to which the unfavorable for the existence of the germs fluid and learn the method of its employment, the latter to grasp at the straw which

might save them from an early grave. covery, and the subsequent disappointment engendered by its apparent failure to satisprofession and of the unfortunate victims are-disease. gives rise, in lungs, larynx, brain, bones, brother, with this difference, that if we submitted to the influence of lymph injec- | itions of fatigue, headache, dyspepsia, for it by the coming spring or year. tions; in the cases of a majority without sleeplessness, or whatever form of warning

advantage. long ago in the original lymph which seem starved and overworked organism that to have improved its remedial power while craves for them, disease in its acuter forms lessening its occasionally deleterious effects passes by the door; when these warnings upon the organism. As will be remembered, are neglected, it comes in and compels the the original lymph when injected into the rest the patient would fain refuse to take. body of a tubercular patient caused malaise You may "work off" a headache for the and fever. An English physician named time, but you cannot work off a fever ; you Hunter and a German pathologist named must lie down and let it take its course. Klebs have each independently analyzed When after six weeks or so you return to the Koch lymph and eliminated from it work, feeling as if a burden had been lifted substances which seemed to be foreign to from you, you give the fever the credit. "It the true remedial principle, and have for cleared 'it' out of me," you declare-whatsome time been using in hospitals and in ever the mystic "it" may be. Say rather their practice the active ingredient of the the fever forced you to rest, and gave nature lympb, to which Klebs has given the name time to put "it" -arrears of energy-into tuberculecidin. It was the foreign and un- you. Disease is not in itself a good, but it necessary elements of the lymph which gave may be an opportunity for good to be done. origin to the fever and other disagreeable This is the lesson of disease; happy are plasma of the bacilli themselves. Klebs er warning. also considers it a secretion of the germs. In experiments upon animals, fully developed tubercles were found to be entirely consumption are neglected by him.

has been made in the lines laid down by place for them. Not all germs are harmful Robert Koch in his original announcement, or generative of inflammation; but, on the and the great German bacteriologist will other hand, some of the germs most harmdeserve the blessings of all mankind, even ful to human life are constantly to be found should his discovery result only in the where street dust is abundant. When we amelioration of some cases and a small per- inhale dust, therefore, we undoubtedly incentage of cures in others. It was a splen- hale many germs, or bacteria, which may did and beneficent gift to humanity, of which or may not find a lodging place within us. the end is not yet, for undoubtedly there It is almost needless to say that the mucous of treatment of tuberculosis by the purified | for the reception of dust than that of the a triumph for the medical profession, there dust. are limitations that never can be overcome | Long dresses that sweep the street in greater importance to humanity than the of disease, and it would not be a great mere repair of an injured organism. It is stretch of authority for our Boards of Health become thoroughly educated in all the arts | public health. of prevention, and that particularly as regards tuberculosis all will be cautious in their selection of milk, careful in the disinfection or destruction of the excretions of consumptive patients, wise in the bringing up of weak-lunged children, and, indeed, observant of all regulations which the family medical autocrat may prescribe for the government of his patrons.

# The Eyes.

the organs in clever acuteness. A thought murderers has been obtained. is immediately suggested. Would it not be beneficial to teach the children to test their ability to see distant objects? The vessel, a faintly appearing train, the rapidly fading forms of birds in flight, and many other objects that the little ones would be eager to notice if so directed, would aid to expand and perfect the various delicate and minutely beautiful parts which compose | myself." the eye.

Infants are frequently born with eyes so weak that they "water" upon exposure to wind or light, even when judiciously advanced to these. This weakness may be cured by frequent bathing with water of the made such a stir in the world as an expected | saltness and temperature of tears, or, as in cure for consumption. It was in 1882 that | my experience has been of more value, dash-Dr. Robert Koch of Berlin made his famous | ing cold water over the eyes each time before discovery of the bacillus of tuberculosis, a being taken out, and never bathing the bacillus which has caused greater havoc baby's face, especially about the eyes with warm water. Cold tea is also recommended, during the ten years which have elapsed and may do the work for some and fail in

#### Best and Disease.

of yours?" "Better than I have done for work more perfect, in every respect, over years; it cleared it out of me." Some such planting by hand, and with half the cost an cows regularly bred and to have a calf once conversation takes place between acquaint- acre. either to say what the "it" was that the would use the mower more freely they illness in question cleared out; but the gen- would not have so nany weeds to contend better after his illness than he was before. we have to contend with, therefore we the fever or pleurisy, the rheumatism or way is to keep the fence corners clean. make any one more healthy would certainly strictest economy needs to be practiced to branches beyond reach. About the 1st of causes a species of death of surrounding pace with you. I cannot supply tissue, bitious to produce something better, which those places where the branches were literawakened by the glad tidings of the dis- Nature, conquers, as women do, by sheer an interchange of ideas and opinions and trouble. inertia, by refusing to comply with the im- the reading of good agricultural stations are possible requirements of masculine will, by for men who read, study and think. The fy the sanguine expectations of the medical sitting down and weeping. Nature's tears study of agriculture has created a higher

Yet certain modifications were made not absence of excitement are granted to the symptoms. Tuberculocidin is an albumose they who profit by it! Few of us, unforwhich Hunter thinks is derived from the tunately, are wise enough to take the mild-

# Germ Diseases.

reduced by tuberculocid in, while in man | Of all the agencies in the spread of what were cured. The purified lymph causes no dangers of the month of March are due not compass them all. fever, and treatment with it does not inter- merely to the high winds then prevalent, fere with the daily occupation of the pa- but to the dust with which the wind pol- food, are worth nothing for manure. If we down to grass or winter grain a month betient. Tuberculocidin has been for some lutes the air at that season. Inorganic time in the hands of the medical profession, dust-that is, dust composed of nothing and is therefore within the reach of every but pulverized earth-is not of itself very one who applies to his family physician for harmful. Thus coal miners are not especitreatment with it, although none of the ally prone to lung diseases, though work. make our home-grown feed more valuable ripen before frost. usual precautions as regards diet, change | ing in coal dust constantly. Dust, however, of climate, hydrotherapy, and the employ- as found in the streets of our cities and the land. ment of our drugs found to be valuable in towns, is largely made up of organic matter. Such dust, if not of itself largely composed Thus it seems that considerable progress of germs, still turnishes an excellent lurking will be still greater perfection in the mode | membrane of the nose is a much safer place lymph. At the same time it must not be lungs, and we should therefore keep the forgotten that while the cure of a disease is mouth closed when we are forced to inhale cows and the stable room they occupy is

and the prevention of disease is of far walking are fearful agents in the acquisition to be hoped, therefore, that the public will to forbid their use as endangering the

#### MAN AND WIFE MURDERED.

#### A Mysterious Tragedy Which is Agitating the Neighborhood of Marietta, Ohio.

night Michael Haas and wife were murder- cents for the plaster and the minutes ed near this city. Haas last fall married labor. Mrs. Langfitt, who had two sons aged 27 | There will be more or less food that will and 29 years. Continued quarrels occurred pass undigested, even with the best of cows between the sons and Haas and his wife, but this is a loss that we cannot entirely The keenness of the sailor's organs of sight | Haas and his wife went to the country on | prevent, though it may be, an occasional is almost proverbial. This effect has two Sunday afternoon to sign some papers change of feed would go far towards docauses. The cold spray dashing into the on property which Haas owned. Mrs. Haas ing it. Much depends upon the feeder; seaman's eyes strengthens and hardens them. had \$1,000 on her person. The Langfitt he should understand the likes and dislikes another, so that the shell becomes bulky Also, the mariner's practice of constantly boys each hired a team of a liveryman here. of his cows and try to so arrange their rapiercing the atmosphere to see something, Haas was shot and Mrs. Haas was stabled tions that he will get the greatest possible often absolutely undiscernible, greatly trains several times. No clue to the murderer or profit from them. A good feeder will get

# A Preliminary to Charity.

"Mamma" said little Willie, "I cannot hands of the court-house clock, an incoming | tell a lie. I took that pie to feed a poor, little, starving boy."

"My darling child," said, his mother, "and did the poor little fellow eat it?" "No'm. You see, I couldn't find any starving boy to give it to, so I had to eat it

AGRICULTURAL.

Matters in General.

Plowing for potatoes should be as deep as the soil, with a jointer attached, as early as the ground will crumble in the spring, followed by rolling and stirring well with a spring-toothed harrow, then crossing with a pulverizing harrow, leaving the soil mellow to the depth of four inches, ready for planting, which should begin as early as the ground and season will admit. Early planting brings the best results, as late crops seem to take blight much more than "How do you feel after that bad illness those put in earlier. A planter does this

ances every day. It might be difficult for | If the farmers throughout the country eral meaning is clear-that the ex-invalid is with. Weeds are one of the worst enemies fact that the yeast plant in a fermenting Formerly he felt fatigue, lassitude, head- should try and find out the best and cheap-

every species of disease of the human or- delay because of his stupidity. Disease acts drop of sweat or perspiration should be con-

The neglect of fences is a prolific source much success, but in a few with undoubted Nature may send are heeded - when suffici- of waste on the farm. Space forbids anyent rest, suitable food, pure air, and an thing like a full enumeration of the many unnecessary "leaks" in the agricultural craft. They are to be found on every hand -in the fields, the forest and the household.

#### Daiy Hints

to be ripened.

consideration.

imparted to the butter packed in it.

and more nutritious, and we greatly help | Farmers are too careless in regard to

even in a properly ventilated and properly not profitable to raise and sell off the farm, and lack of vital power. He becomes more a calculation of what crops can be sold off susceptible to disease and succumbs more at profit, or to sell one crop and buy aneasily. And yet many people seem to think other. The farmer's ability to transact his their cows can stand tied in the stable all business in a business-like manner is inwinter to an advantage.

intelligence to see that the extra feed taken | creased. to support three cows instead of one is just that much feed thrown away. And when the labor of caring for the extra number of good cow should terminate in a big reform in the management of that herd,

nitrogen would amount to ten times that | small. sum. Some instances are given where crops of silage corn were grown, manured in in strips. Where manure as ordinarily saved was used, and then where land plaster had been used in the stables, the crop told fully a third in favor of the latter, and A Marietta, O., despatch says :- Last | this gain was made at the expense of a few |

comparatively good results from cows not they may be guessed to be more than 900 the ugliest thing I ever saw. at all first-class.

One of my neighbors drove seven cows to the stock yards to sell them for beef; from a single parent and their scarcity is husband gave it to me for a Christmas presthey weighed 6,000 pounds-which weight accounted for by the fact that man is not ent." showed that they were not poor-and he the only oyster eating animal. was offered one cent and a half a pound for that will prove that it pays to feed extra made.

weight of cow tor the sake of the money it will bring when the cow becomes unprofitable in the dairy and is sold.

A Non-Breeding Cow.

Ten per cent. of cows are failures as breeders. Some are incorrigible, but others may be brought into condition by proper treatment. Give some cooling laxative, as epsom salts, dissolved in oatmeal infusion, or any similar liquid and repeat twice at intervals of three days. The feeding should be light and digestible, but nutritious, as bran and linseed mash but never cottonseed meal, which is often the cause of the disability. By daily meetings with the bull it is frequently successful. It is desirable to keep this, and irregularity is the most frequent cause of introducing trouble into a herd.

Spare the Woodpecker.

Dr. E. Sterling, of Cleveland, in correspondence with Insect Life, describes the at

#### Seasonable Suggestions

enormous number of patients have been more prolonged visitation. When the mon- extensive plan of farming, and get ready gle eye, but in a thin soil the size of the land Government: cutting should be much larger.

> carefully lays out his farm in proper fields, with either Vancouver, in British Columbia, making a map of the same, devoting each or San Francisco, or such other parts as field to a succession of crops, with suitable may be determined. As soon as the main manuring, basing the rotation upon the Pacific cable is laid, the guarantee above adaption of one crop to fit particular soils, referred to shall be rearranged, and come and pursuing all his operations with a plan into and be a part of any joint purse guarfor doing everything just at the right time antee given by the other countries or Sweet cream needs less care in the handl- and with a determination to make exper- colonies joining in a guarantee for the main ing of it than is necessary with that that is ience and the lights of science as available | Pacific cable." as possible in his calling, will undoubtedly The well-kept cow that has given milk reap the most abundant reward for his behalf of his company that they are willing through the winter is wonderfully stimu | labor. To complete the system he must | to proceed with the construction of the related in her milk flow when she comes to keep a record of all his farm operations, for maining links in the service as soon as it grass, and her milking period is prolonged. | in no other way can he be said to have a full | is thought practicable. Although depend-The increased flow for the year is a valuable knowledge of his business. He should keep ing upon pecuniary assistance from the an account of all the expense, loss or gain; home Government in this, the French com-An exchange tells us of a butter maker in what particular branch of his business he pany are quite prepared to go on with the who filled his tub with nice, sweet hay, pour- is most successful; what crops are most ed boiling water on the hay, closed the tub profitable for him to raise; the most profit- taking to believe that it will be remuneratightly and let it remain so until the tub able disposition to make of them; the best tive. The announcement says: had absorbed the aroma of the hay which it | and most profitable stock to raise, and how

best to dispose of it. How many men are constantly asking | That farmer who has a silo is about as inwhich is the best breed or which is the best dependent of the weather as a man can be. separator or churn or other things to be Aside from heavy rains, nothing interrupts to join up the Hawaiian islands." used in the dairy? Nature does not seem to this kind of harvesting. Light rains and Starch, sugar and fat, while essential as be cleared makes it possible to either seed the form of linseed or cottonseed meal. We is that varieties of later growth may be thus kill two birds with one stone. We planted for this purpose which will not fully

keeping an account of their business, conse-No one in good health can shut himself, quently they often raise crops which are creased in proportion to the increased When one good cow will yield as much as knowledge of his business details, and in three poor ones it does not require much | the same proportion also are its profits in-

# How An Oyster Grows,

looking at their teeth.

overlapping each other.

determined. when 4 years of age-the shots are regular

and successive, but after that time they therein. become irregular and are piled one upon and thickended,

years old.

ANCOUVER TO AUSTRALIA.

Initial and Definite Step Taken Towards Cable Communication.

The initial and definite step towards the construction of the cable line which shall unite this continent with Australia has at last been taken, and a contract entered into for the laying of the first section of the wire. France has long had a penal settlement on the island of New Caledonia, situated about 900 miles west of the Queenland coast, and this settlement she has been anxious to have placed in touch with the seat of Government at home, and the outside world in general. The cause of her anxiety has been chiefly fears of an outbreak among the convicts, or any emergency that may arise in case of war, and as New Caledonia is at present completely isolated the construction of the cable will be a great boon to the French authorities. Therefore, the first link in what will ultimately be a trans-pacific telegraph line will be that uniting Queensland, Australia, with New Caledonia. Commercial aches, dizziness; now he is free from all est method to get rid of them, and we have tack of some insects on the elms along Euclid relations between this settlement and the these symptoms, he is fresh, active, buoyant, one of the hest remedies mentioned in the avenue during the summer of 1880, and says: Australian commonwealth have been conand he gives all the credit to the illness- foregoing by the use of the mower; another Fearing a repetition of the trouble, numbers stantly and rapidly extending, until now of us fought the cocoons in the fall and de- the necessity of such a step as that anague, which confined him to his bed for At this time, when the agricultural sit- stroyed thousands, but when winter set in nounced has become evident to all. Negoweeks. To say how organic disease can uation is anything but encouraging and the tens of thousands still remained on the outer tiations have been in progress during the past year between the French Government pass the wit of man, but if one must explain keep the expenses on the farm less than September a pair of hairy woodpeckers as represented by the Societe Francaise des phenomena most people will prefer to take the income, it is well to look to seed-saving, made their appearance and fed daily on the Telegraphs Sous-Marin, though Captain the next preceding circumstance as the no less as an agricultural necessity than as grubs. In the course of that month and the Audley Coote, of Tasmania, and the powers cause rather than go back to a further in- a profitable and altogether meritorious next over a dozen of these birds were added that be in Queensland. But so secretcident which carries with it an undeniable ambition. Every farmer must have an to the number, and by their industry on this ly have these been conducted that it is reproach. For, in truth, nature has been ambition to produce the best crops particular pest attracted the attention of all only now, through the medium of the name albumose is given. When the bacilli saying to our ex-invalid friend, "You are possible, in order to make his industry who passed. Suffice it to say that when Queensland blue book on telegraphs, that the develop in the body this active principle using yourself up too fast; I can't keep a financial success, and he should be am- March came not a cocoon was to be seen in tacts have become public. These negotiations have now been closed and the company tissues known as coagulation-necrosis, blood, brain, as fast as you use them; do would be more profitable than he or his ary white with them before, and they never has undertaken to establish communication and the necrotic tissue thus formed is so stop and let me make up on you." The reighbors had previously done. There are troubled the trees here since, I have always between the designated points within 18 man has answered-in deed if not in word- but two methods to be employed to produce found the native woodpecker family the great- months. Confirmation of this was obtained that they die. After much experimenta- "I can't stop; I want to marry, and have the desired result. The first is thorough, est destroyer of insects in every stage of their from Paris last week, when the French tion the lymph was heralded to the world, and these birds should be pro- Government admitted its share of the consomewhat prematurely it is true, as a spe- carriage; I want to provide for my chil- ready produced, and the second is the in- tected by the farmer, and the orchardist in tract. A liberal guarantee has been made cific for consumption and doctors and pa- dren; I love the excitement of work and troduction of varieties which are superior in particular, be it the maligned "sap-sucker" or to the French company by the Governments tients flocked to Berlin from every land, money making, and I won't stop." Then it points of excellence and productiveness than the most conspicuous yellow-hammer. A of Queensland and New South Wales, to the former to secure some of the precious comes to duel between man and nature, and any we now have. Selection is the only few old ham or beef bones with a little meat the extent of \$10,000 per annum providing nature wins. Man has only his will-a agent or principle to be employed in accom- on them hung up in the orchard trees in France promises \$40,000, this to extend over powerful weapon enough, but not emnipo plishing this purpose. There is much to be winter time will keep these birds in the a period of 30 years. It is confidently betent; nature has the support of every muscle, learned about farming which no man can neighborhood during the season if not the lieved that the Chamber of Deputies will Since the first few months of excitement | nerve, and cell in the body. Nature, Dame | learn by himself. Agricultural clubs and | year round, and will pay the owner for his | endorse this guarantee and, indeed, increase it. In the agreement the company undertakes to lay, maintain and work the line, allowing the guarantors the free use of the Mixed potato seed should not be planted section for official business to the extent of aim for the better intelligence in thousands as the habits of each are likely to be quite the guaranteed sums each year. At the of this awful malady, the public has heard | In the old legend, Death gave the farmer | where it feebly existed before. The cancer | different, and disastrous results are sure to | same time the working expenses are not to little or nothing of the vaunted cure. But three warnings of his coming-deafness, of ignorance has been driven out and the follow. It is best to plant medium-sized exceed \$12,000, and the receipts over that in these two years physicians have not been blindness and lameness. The farmer had dry rot of stupid indifference banished to tubers, uniform in shape and smooth, with amount shall go towards the reduction of idle, and everywhere the lymph has been not understood him, but that was his own an extent that is encouraging. Every item shallow eyes, and it is a safe plan to intro- \$60,000. Ten words will be sent for six tried and tested over and over again in fault; Death refused to grant him a longer of expense ought to be counted, and every duce some new variety each year from some shillings, each additional word incurring a reasonable dealer, not expecting always to further outlay of sixpence. Of material inganism to which the tubercular microbe in much the same way as his sterner sidered; the working for no profit should find them what is desired, but hold on to terest to the citizens of Vancouver are the not be forgotten by the farmer. He should those which do please. A rich, fertile soil clauses contained in the agreement, as joints, skin, and alimentary canal, and an take need of its warnings, we may escape a make up his mind right now to adopt the will grow a fair crop from cutting to a sin-

"The above cable to form a part of the System in farming is important. He who main Pacific cable, connecting Australia

> Capt. Coote has further announced on work, having faith sufficient in the under-

"We are ready to begin to lay the second section, from New Caledonia to the Fiji islands, at once, if a guarantee can be arranged, and also to proceed with dispatch

Capt. Coote has been working on this admit of any absolutely best in this world. showers, while making the work disagree. scheme for years, and some time ago ob-There are so many points to cover that no able, do not stop it, and when once properly tained a concession of \$20,000 per annum pulmonary tuberculosis treated by Klabs haps the most potent. The peculiar one breed, animal or machine can possibly in the silo all danger of imperfect curing is from the Hawaiian Government for a cable He also received from the Samoan Government the exclusive right to land and work need additional fertility for our land (and fore corn in the stock would be dry enough a cable upon the shores of that kingdom for who does not?) it is economy to buy it in to husk. Another advantage in the north a period of 21 years. The route for this transpacific cable as mapped out is from Queensland to New Caledonia, thence to Fiji, Samoa, Fanning Islands, Honolulu, and thence either to Vancouver or San Francisco. The American Government has made two surveys during the past year to the Hawaiian islands from California, and the warmed room for a week without suffering | yet the farmer can by knowing the feeding | British Government one from Hawaii to a some injury. He feels a growing lassitude value of the manure produced from it, make point beyond the Fiji islands. There is & company, however, known as the Pacific Telegraph Co., with a capital of \$10,000,000 at present existing in England for the osten sible purpose of laying the cable, but the capital has never been subscribed. In the United States there are two such companies but neither have done anything as yet in this line. One was organized in 1875, with Leland Stanford at the head, and was promises heavy subsidies. The other is comprised The oyster at the commencement of its chiefly of men interested in the C. P. R., career is so small that 2,000,000 would only and is known as the Hawaiian Telegraph occupy a square inch, says the Boston Globe. Co. Such a cable, to connect Canada with In six months each individual oyster is Australia, has always been regarded by large enough to cover half a crown, and in Great Britain as an absolute political neces The outlay for plaster for sprinkling about | twelve months a crown piece. The oyster | sity. Britain's present line of communica the stables for the six winter months need is its own architect, and the shell grows as tion is largely through foreign countries. not exceed five dollars, while the saving in the fish inside grows, being never too and this would, in time of war, be broken off. She has long wanted an alternative It also bears its age upon its back, and it | route to the east, as the recent experimentis as easy to tell the age of an oyster by al transfers of troops across Canada from looking at its shell as it is that of horses by Halifax to Vancouver would go to show, and it is more than probable that she will Everyone who has handled an oyster see to a finish of the undertaking now comshell must have noticed the successive layers | menced. The announcement of this cable line will, no doubt, infuse new life into the These are technically termed shots and old companies organized for the same pureach one marks a year's growth, so that by pose, but as England possesses the vantage counting them the age of the oyster can be ground, in the way of strategical points for the landing of the cable, it is not likely that Up to the time of its maturity-that is anything will come of it unless she gives her sanction and has a controlling interest

# A Contrast.

"That new brooch of yours, Mrs. Min-Fossil oysters have been seen of which ker, " said her candid friend, Mrs. Speakeach shell was nine inches thick, whence out, "if you don't mind my saying to, is

"I know it," replied the brave little wom-One to two million oysters are produced an, cheerfully. "I wear it because my

And Mr. Minker, listening in the room The starfish loves the oyster and preys adjoining, remembered that he had given them, or an average of twelve dollars and upon it unceasingly. A variety of whelk is away to chronic loafers and officers bores, eighty-five cents a cow (\$12.85), says a cor- also very fond of young oysters, to get at with slighting and contemptuous remarks, respondent Stockman and Farmer. Won't | which it bores right through the shell and | the box of cigars his wife had presented him some man come forward and give the figures | sucks the fish up through the hole thus | Christmas day; and he went out to the coalshed and kicked himself.