### TREATMENT OF CORKS FOR BOTTLING.

By J. E. Siebel, Director Zymotechnic Institute, Chicago.

THE following remarks have been prompted by a number of inquiries as to how the turbidity in bottle heer caused by the corks might be prevented, and therefore they are supposed to be of inst to the trade at large.

The cloudiness in bottle beer may be due to various causes, viz., to elimination of albuminous matter, to the separation of yeast and micoderma cells, and also to the separation of albuminous matter by tannic acid contained in the cork. If the sediment formed in bottle beer is very slight and light, and yeast cells and other microscopic organisms are absent, we may conclude that the turbidity is due to

s, as stated.

The tannic acid in the corks, to which the precipitation in the beer is princip-ally due, is contained chiefly in the brown. powdery substance present in the pores of the corks. The poorer the cork the more of the brown substance is generally contained in them, and by the removal of this substance the cork is greatly im-proved for beer bottling purposes. The best and simplest means to accomplish this, at least in a measure which I recom-mended several years ago, consists in placing the corks in a rotary drum, such as a chip or shaving washing machine, in throwing them around, by revolv ing the drum for half an hour or so. amount of brown dust separated from some kinds of corks in this manner is surprisingly large.

surprisingly large.

After having treated the corks in this
manner they should be placed in an
abundance of cold water for about
twenty-four hours, and be stirred around from time to time. Shortly before use the corks are withdrawn from the cold water, and placed in warm water, tem-perature 60° R. or over, for about five minutes, when the same is allowed to drain off and the corks are ready for imdrain off and the corks are ready for im-mediate use. As a further precautionary measure the corks may be squeezed through a corking machine to eliminate the last traces of liquid which they contain. Instead of using pure water to soak the corks, water to which a small quantity of carbonate or bicarbonate of soda is added is also employed in some parts. These chemicals are quite harmless and increase the solubility of the tannic acid in the corks; however, the last traces of these chemicals, or rather of the tannic these chemicals, or rather of the tannic acid brought in solution by their applica-tion, must be carefully removed by thorough washing with water or other-

It is stated that a very diluted solution of bichloride of lime (bleaching powder) is also used for the steeping of bottling corks, probably chiefly with a view to its bleaching action.

In all cases where chemicals have been used a thorough washing in clean water should follow, and if possible they should also be squeezed through the cork mach-

also be squeezed through the cork machine. In performing the latter operation it would be well if the cork could be touched with some blotting paper, unsized paper or similar material while being squeezed, as this will help to remove the limit.

move the liquid.

The dipping of the corks in molten paraffine is also recommended in order to prevent the tannic acid of the corks from entering the beer. To do this succe fully, however, the corks must be dry. fully, however, the corks must be dry. If they have been soaked in water they should be dried before dipping them in pareline. It might be advisable to dip them after most of the tannic substance has been moved by shaking them in a drum, as above described, if such treatment leaves the corks in a sufficiently pliable condition. The paraffine has to

be quite hot to afford a coating thin enough to prevent its peeling off while being pressed into the bottles.

In case the corks should not be pliable

In case the corks should be placed enough after having been dipped in par-atine, it might be well to soften them mechanically previous to dipping by passing them through a bottling machine or

The question whether it would be well to boil the corks in soda solution we should hesitate to answer in the affirmative, as this process is likely to injure the elasticity of the corks.

#### ONE HUNDRED DRINKS PER VEAR

The Average Amount of Whiskey Consumed by the American People.

Americans are accounted a fairly sober cople in the hurlyburly of nations, but the figures of the internal revenue com missioner for the last year are enough to make a temperance crank stagger without a drop of whiskey or beer says the At-lanta Constitution. We distilled last year tenta Constitution. We distinct has year 87,346,884 gallons of liquor, not including 1,430,355 gallons of brandy, making in all 88,777,187 gallons of alcoholic spirits. Expert bartenders estimate sixty drinks to the gallon. Therefore there were 5,604,062,891 drinks produced in this country. A conservative estimate of how much was imbibed across counters is now much was imbited across counters is about 37,000,000 gallons of whiskey, brandy and other distilled spirits, or in other words we drank 6,090,000,000 glasses of whisky for which we paid over the bar \$609,000,000 or \$5,000,000 more than all the annual appropriations of Congress combined. This represents a consumption of 100 glasses of whiskey each year for every man, woman and child between the rock-bound Pacific and the storm-tossed Atlantic, or, counting only the male adults, 500 glasses per year Of beer, the figures are equally ling. The consumption was 31. each. or astounding. astoniding. The consumption was 51, 962,543 barrels; that is 12,785,169,200 glasses, representing the expenditure for this mode of Teutonic hilarity of 8617, 258,400, or about 10 cents for each in In the neighborhood of 220 glasses are charged up in this calculation against each of us as our annual allow-ance. Therefore, if we do not average our daily glass we may be sure that our neighbors are getting the benefit of our abstinence. By estimating this year's internal revenue receipts from spirits on the basis of last year's product, with the increased tax of \$1.10 per gallon, the internal revenue receipts will be \$97,674,

### THEN AND NOW.

In the early days of the temperance vement, it was the personal than the legislative, aspects of the ques-tion that were most insisted upon, and to that fact may be traced the rapid progress of the movement in those earlier times, says an English paper; and our older readers, whose memory covers any considerable period of temperance agitation will fully corroborate our English friend's statement as the American history of that "Unfortunately, there were many who dreamed that legislation would be a short and easy way of dealing with drunkenness. But experience has de-monstrated that though seemingly omnipotent, the legislature can accomplish much less than is imagined in the promo-Attention i tion of temperance. continually concentrated upon the sub-ject by countless agencies. Nevertheless, ject by countless agencies. the hold of the public house upon the community is not greatly relaxed. In sermons, in lectures and in cartoons, intemperance has been dealt with. Orators,

\$5.000,000 is an immense

fortune, but is only a conservative estimate of the amount saved in doctors' bills to the people of the Dominion by the use of

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poets and painters have depicted its horpoets and painters have depacted its rors"; but the vice has not yet been abolished, although it has been much abated through the influence of reason abated through the influence of reason and public opinion, which unite in dealor-ing that excess is shameful and not to be countenanced by either respectable or only semi-respectable people, so-called. At this moment, English Bishops, in-spired with a desire to conquer it, have some properties of the contract of the con-traction of the con-tra assumed that if drink shops are only adequately looked after by "respectable" people all will be well; but all these schemes are failures here and in England. because they try to eliminate the Anglo because they try to eliminate the Angio-Saxon nature from man, depending for their success on the fallacy that the Eug-lish or American nature will give up its guiding star of personal liberty. There may, perchance, be some scheme devised that will effect what philanthropists de-tact of the control of the control of the control of the star of the control of the control of the control of the star of the control of the co sire; but, meanwhile, the old path of personal abstinence seems still the most effective way of grappling with the ques-tion.—Western Brewer.

### A NEW ENGLAND BEVERAGE.

It is the rankest sort of heresy to New England traditions—in which the juice of the apple is treated with all the reverence bestowed upon other symbolism of the Brahmin class—to question the moral influence of that interesting beverage known to the sons of men as hard cider queer old stuff, of which the hard Puri-tanical guzzler might say, as the genial Omar-Khayyam said of another drink:

Fill me with the old familiar juice. Methinks I might recover by and by. Yet here comes the Boston Herald, which denies that

Within this jug there is good liquor Fit for parson or for vicar,

even though it be labeled cider, and says that "intoxication from cider is one of the most demoralizing drunks in its effects possible. Beer renders those who drink it comparatively good natured; hard cider arouses all that is evil and quarrelsome in those overcome by it. The country expression as to the drinking of this cider is that it is apt to make people this cider is that it is and the interest in moderate quantities, but when full intoxication is induced by it there is no liquor in the world more detrimental."

And then to this violent heterodoxy a Brockton paper adds injury by saying:
"Those whose business calls upon them to notice drunkenness and its causes right here in Brockton will agree with this statement of the Herald. The hard c drinker is one of the most unplease fellows imaginable, and he gets on what the experts call 'one of the meanest drunks.' Hard cider seems to have a drunks. Hard cider seems to have a tendency to inflame the fighting blood of its drinkers; and as for its healthful qualities, it has few. Physicians recommend whiskey and beer occasionally to mend whiskey and heer occasionany to those who are ill, but who ever heard of their recommending hard cider?" Thus one by one the roses fall. Soon New England will be just like other folks.

# AUGUSTE

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