

Proteids or nitrogenous matter	0.53	0.38
Ratio of sugars to non-sugars in total unfermented solids	1: 2.50	1: 2.55
Ash	0.20	0.19
Degree of fermentation	64 p.c.	54 p.c.

TABLE SHOWING THE INCREASE IN THE PRODUCTION OF MALT LIQUORS IN THE UNITED STATES, FROM THE YEAR 1863 TO 1898.

In 1868 the sales amounted to	6,147,000 barrels.
In 1873 " " " "	9,634,000 "
In 1878 " " " "	10,242,000 "
In 1883 " " " "	13,500,000 "
In 1888 " " " "	24,600,000 "
In 1893 " " " "	33,800,000 "
In 1898 " " " "	37,500,000 "

Franklin Institute.

[*Proceedings of the stated meeting held Wednesday, September 19, 1900.*]

HALL OF THE FRANKLIN INSTITUTE,
PHILADELPHIA, September 19, 1900.

Vice-President THEO. D. RAND in the chair.

Present, 128 members and visitors.

Additions to membership since last report, 22.

The Secretary read a letter from President Birkinbine, expressing his regret at not being able to be present at the opening meeting of the season, and calling attention to the need of active co-operation on the part of the members in behalf of the Endowment Fund of the Institute and for the increase of the membership.

The presiding officer introduced Mr. Fred. W. Unger, of Philadelphia, who had recently returned from the scene of the war in South Africa, where he had been engaged as war correspondent for several prominent English journals. Mr. Unger gave an interesting description of the military operations of the Boer-British conflict, dwelling specially on the engineering features of the subject.

Prof. Arthur J. Rowland, Drexel Institute, Philadelphia, presented a paper entitled "Mistakes in the Rating of Incandescent Electric Lamps," in which he gave the results of his investigations respecting the useful light-emitting efficiency of the different types of incandescent lamps. The paper was discussed by Dr. Geo. F. Stradling, Mr. W. C. L. Eglin, Dr. Francis Head, and the author. (Paper and discussion will be found in this impression of the *Journal*.)

Mr. W. N. Jennings exhibited and commented on several lightning photographs which he had taken, and the meeting was adjourned.

WM. H. WAHL, *Secretary*.