

Report of Uniform Methods and Planning Committee 1939 - 1940

Most of the Committees of the Society have undertaken the tasks assigned to them and have studied the methods which they were investigating with a great deal of care. Work of this nature must necessarily be done when time from one's regular tasks permits and it should be remembered that under practically all circumstances it is an added burden to the committee member. For this reason the Society members who do not take part in this work should appreciate the time and effort expended by the Committee members towards clarifying and improving our methods.

We shall discuss the reports of the various Committees in order and present for your approval the recommendations of the Uniform Methods and Planning Committee with reference to these reports.

Journal Committee:

After a number of meetings and considerable discussion the Journal Committee arrived at a new plan for handling the Journal by having the Society undertake its publication. With this in mind they have recommended the employment of a full-time man to manage the Journal and to act as Secretary and undertake some of the other duties which would be handled by an office of this nature. This report has been referred to the Governing Board.

Journal Advertising Committee:

This Committee has had a very difficult assignment. It required an immense amount of work and a large volume of correspondence. We feel that the work was well handled and that the Chairman deserves considerable credit.

Fat Analysis Committee:

This Committee has worked on a number of different methods and the full report has appeared in the Journal. For this reason we will merely mention the various methods briefly:

(1) Titer Test:

The Committee recommends vertical stirring in place of horizontal stirring and specifies the rate at which the sample should be stirred. Their cooperative work indicated that this change will not give results which differ from those obtained by using the former method. They also include specifications for a new type titer thermometer. This is recommended for adoption as a tentative method.

(2) Tristearine in Lard:

This method was merely re-written for purposes of clarification and is recommended for adoption as an official method.

(3) Smoke, Flash and Fire Points:

These methods have likewise been tentative methods and have been re-written to coincide with the methods of the American Society for Testing Materials. They are recommended as official methods.

(4) Villavecchia Test for Sesame Oil:

This has likewise been a tentative method and is recommended for adoption as an official method.

(5) Modified Gardner Break:

The Committee recommends the use of a tall form beaker and gives the specifications for the thermometer to be used. As this has been a tentative method it is recommended for official adoption at the present time.

(6) Hydroxyl Value:

The Committee suggests a method for the calculation of Hydroxyl and Acetyl Values and recommended its adoption as an official method.

(7) Color Reading:

They recommend the use of a one inch column for oils and fats which cannot be read in a 5¼ inch column. This is recommended for adoption as an official method. Further work will be referred to the Color Committee.

Soap in Oil Committee:

This Committee merely reported progress and made no recommendations.

Refining Committee:

This Committee has done a great deal of work on extracted soybean oil. In their report they suggest that further work be done on this particular type of oil and suggest further that we attempt to interest the Regional Soybean Laboratory at Urbana to take part in this work. This has already been accomplished. The Committee will continue to function during the coming year with this additional cooperation.

Soybean Committee:

This Committee merely made a progress report containing no recommendations.

Sampling Committee:

This Committee worked on the sampling of soap stock and acidulated soap stock. They recommend that no bleeder samples be accepted. They recommend that the samples be drawn from the flowing stock at the discharge end of the pipe as the material enters the tank car or container. This applies to soap stock. Acidulated soap stock may be sampled in the same manner or by any of the official methods for sampling liquid fats in tank cars or drums. This method was recommended for adoption as a tentative method.

The Uniform Methods and Planning Committee recommend that the Sampling Committee work on the sampling of soybean oil, as considerable difficulties in sampling this product have arisen during the past year. In doing this it is recommended that they contact the Soybean Standards Committee of the Soybean Producers Association.

Peanut Standards Committee:

This Committee has prepared a method for the evaluation of peanuts and recommend its adoption as a tentative method.

The Uniform Methods and Planning Committee recommend that the Committee be continued and that they ask for cooperation of as many laboratories as possible in trying out the method and invite criticism and suggestions.

Color Committee:

This Committee made certain recommendations for consideration of the incoming committee and also certain suggestions as to changes in our present methods. These are as follows:

“(1) Carry on the work regarding the improvement of the tintometer, including standardization of illumination.

“(2) Carry on the work regarding the color reading of crude coconut oil now being handled by the Sub-Committee.

“(3) Carry on the work regarding standardization of the yellow-red ratio.

“(4) Make the following changes in the methods:

(a) on page 16 f—change the specifications for color tubes to read as follows: ‘Length, 154 mm. over all, inside diameter 19 mm. outside diameter 22 mm. They shall be provided with two marks, one to indicate an oil column of 133.35 mm. (5.25 inches) and one to indicate an oil column of 25.4 mm. (1 inch). Tubes separately marked to indicate columns of 133.35 mm. (5.25 inches) and 25.4 mm. (1 inch) may be used.’

(b) on page 17 at end of present method add the following paragraph: ‘Dark oils are to be read on a 25.4 mm. (1 inch) column, the limit for ‘light oils’ being 40.0 red on a 133.35 mm. (5.25 inches) column. If an oil or fat is found to have a color exceeding 40.0 red when using the regular 133.35 mm. (5.25 inches) column, fill another tube to the 25.4 mm. (1 inch) mark and read the color under the same conditions outlined above for the 133.35 mm. (5.25 inches) column. Report the color as being read on a 25.4 mm. (1 inch) column. (It will be assumed that any color result in which the column height is not designated has been read on a 133.35 mm. (5.25 inches) column. Only when the color has been read on a 25.4 mm. (1 inch) column will it be necessary to specify the length of column.)’

(c) Include the following in the Section on ‘Standard Methods for the Sampling and Analysis of Commercial Fats and Oils:’

‘Lovibond Color

(Follow the method for color as outlined in the section on Refined Oils)”

Committee on Indicators:

This Committee made the following recommendations, with some slight changes introduced by the Uniform Methods and Planning Committee:

“(1) No change is recommended in the rule covering refined oils.

(2) .025% Dr. Grubler’s Aniline Blue in 99%

Isopropanol shall be a permissible alternate indicator solution on all crude oils.

(3) The addition of 10 cc of petrolic ether to the sample prior to the addition of the indicator solution shall be permissible.

(4) The use of 99% Isopropanol as an alternate solvent in the present F.F.A. test on both crude and refined oils shall be allowed.

(5) The Committee also believes the methods available with the recommended changes are fairly adequate for all types of oils and requests its discharge.”

Oil Characteristics and Standards Committee:

There has been considerable correspondence and discussion about this subject by various members of the Committee. The Uniform Methods and Planning Committee decided to hold the matter in abeyance until it can be more carefully considered by the incoming committee.

Moisture Committee:

This Committee had no report and its discontinuance is recommended.

Scientific Literature Committee:

The report of this Committee was not presented but will be published in Oil and Soap.

The Uniform Methods and Planning Committee wish to commend this Committee on the large amount of work necessary to prepare the report.

Soap Stock Committee:

This committee recommend:

(1) The tentative adoption of the proposed method for determining neutral oil in soap stock.

(2) That the tentative method for total fatty acids in soap stock or acidulated soap stock from copra and palm kernel oils be made official.

(3) The discontinuance of the Committee.

Committee on Pot Cook Method for Determination of Cellulose Yields of Lint and Hull Fibre:

This is a long report and will appear in the journal and the Committee recommend its adoption as a tentative method and further study by the same Committee during the coming year.

Meal Color Committee:

There was no report submitted by this Committee.

All of the above was presented to the Society in session at New Orleans and the recommendations of the Uniform Methods and Planning Committee coincided with those of the various committees. In each instance the methods as approved by the Uniform Methods and Planning Committee were adopted by the Society.

J. T. R. Andrews
E. B. Freyer
T. C. Law
C. P. Long
A. K. Schwartz
H. P. Trevithick
J. J. Vollertsen, Chairman