

REFINING CONDITIONS

Refining:	Hydraulic	C. S. Cold Pr.	C. S. Slow break	Peanut	Soya Bean*	Corn	Cocoanut
Lye	*11A	*11A	*11A	*16D	*16D	*16D	*16D
Temp. start	20-24° C.	20-24° C.	20-24° C.	20-24° C.	20-24° C.	20-24° C.	30-35° C.
Speed	250±10	250±10	250±10	250±10	250±10	250±10	250±10
Time cold	15'	45'	45'	30'	15'	15'	5'
Temp. hot bath	63-67° C.	63-67° C.	63-67° C.	65-67° C.	63-67° C.	63-67° C.	50-53° C.
Time hot	12'	12'	20'	12'	12'	12'	5'
Final oil temp.	60-65° C.	60-65° C.	60-65° C.	60-65° C.	60-65° C.	60-65° C.	45-50° C.
Temp. cooling bath	20-24° C.	20-24° C.	20-24° C.	20-24° C.	20-24° C.	20-24° C.	26-30° C.
Time cooling in bath	30'	30'	30'	30'	30'	30'	30'
Add'l cooling and settling	1-16 hrs.	1-16 hrs.	1-16 hrs.	1-16 hrs.	1-16 hrs.	1-16 hrs.	1-16 hrs.
Drain soap stock	30'	30'	30'	30'	30'	30'	30'
Clarification:							
Filter-Cel	0	.5 gm.	0	0	0	0	0
Temp.	0	Room	0	0	0	0	0
Speed	0	250±10	0	0	0	0	0
Remelting:							
Temp.	75±2	75±2	75±2	75±2	75±2	75±2	50±2
Agitation	none	none	none	none	none	none	none
Time	0'	30'	30'	30'	30'	30'	30'
Temp. cooling bath	20-24° C.	20-24° C.	20-24° C.	20-24° C.	ice water	ice water	26-30° C.
Time	15' or till solid	15' or till solid	15' or till solid	15' or till solid	15' or till solid	15' or till solid	15' or till solid
Drain	15'	15'	15'	15'	15'	15'	15'

\*Tentative. \*\*For Cocoanut Oil, add 0.1% table salt for each 1.0% F.F.A. before adding lye.  
\*Lefax Methods.

dioxide allowable for refining shall be calculated from the following formula for hydraulic or hot pressed oils with F.F.A. above 1.5%: and for hydraulic or hot pressed oils with F.F.A. less than 1.5%, only 80% of the amount calculated from this formula shall be used.

$$\frac{\text{F.F.A.}}{5.2} + .54 = \text{maximum sodium hydroxide}$$

The maximum amount of sodium hydroxide allowable for refining expeller, cold pressed, or whole pressed oil shall be calculated from the following formula:

$$\frac{\text{F.F.A.}}{4.365} + .77 = \text{maximum sodium hydroxide}$$

The strengths of sodium hydroxide solutions (expressed in Baume degrees) to be used for refining crude cottonseed oils of various F.F.A. shall be as follows:

Per Cent F.F.A.	Hydraulic or Hot Pressed Oils	Cold Pressed, Expeller, or Whole Pressed Oils
1.5% or less	12° and 14°	16° and 20°
1.6 — 3.0	12° and 16°	16° and 20°
3.1 — 4.0	14° and 18°	16° and 20°
4.1 — 5.0	16° and 20°	16° and 20°
5.1 — 7.5	18° and 20°	20° and 26°
7.6 — 10.0	20° and 24°	20° and 26°
10.1 — 15.0	20° and 26°	20° and 30°
Over 15.0	22° and 28°	20° and 30°

Tables follow which show the required percentages of each strength of lye to be used.

(b) Crude Peanut Oil: On crude peanut oils three refinings shall be made, using the following strengths and amounts of sodium hydroxide solution:

Crude Peanut Oils with F.F.A. not exceeding 3%—

12° sodium hydroxide solution using 60% of the maximum amount calculated from the formula given for hydraulic pressed crude cottonseed oil.

16° sodium hydroxide solution, making one test with 60% and one test with 80% of the maximum amount calculated from the formula given for hydraulic pressed crude cottonseed oil.

On Crude Peanut Oils with F.F.A. exceeding 3%—

16° sodium hydroxide solution using 60% of the maximum amount calculated from the formula given for hydraulic pressed crude cottonseed oil.  
One test using 16° and one test using 20° sodium hydroxide solution, using in both tests 80% of the maximum amount calculated from the formula given for hydraulic pressed crude cottonseed oil.

Tables follow which show the required percentages of each strength of lye to be used:

(c) Crude Cocoanut Oil: The strength of sodium hydroxide solution to be used in refining crude oils shall be 20° in all cases. The amount to be used shall be calculated from the following formula:

$$\text{F.F.A. (as Oleic)} \times 1.10 = \% \text{ of } 20^\circ \text{ sodium hydroxide solution.}$$

(d) Crude Corn Oil: The strength of sodium hydroxide solution to be used in refining crude corn oils shall be 16° in all cases. Two tests shall be made, using respectively one-half and two-thirds of the maximum amount calculated from the formula given for hydraulic pressed crude cottonseed oil.

MISCELLANEOUS OILS:

Section 1: Tentative method for refining Crude Soya Bean Oil: The apparatus and general procedure shall be the same as prescribed for hydraulic pressed crude cottonseed oil, with the following exceptions: Strength of lye shall be 14° in all cases, and two tests shall be made, using respectively one-half and two-thirds of the maximum amount permitted for hydraulic crude cottonseed oil having the same F.F.A. The soap stock may be hardened by chilling in ice water, if necessary, to permit draining the oil from the soap stock.

SECRETARY-TREASURER'S ANNUAL REPORT

May 1st, 1934 Through April 30th, 1935

FINANCIAL STATEMENT

RECEIPTS

Office of the Secretary-Treasurer.

Cash balance May 1, 1934—

Checks on hand	\$ 1.00
In Petty Cash Drawer	1.50
In Savings Acc't, Hibernia Nat'l Bk. (Liquid)	50.93
In Savings Acc't, National Bk. of	

Commerce in N. O. (Liquid)	51.00
In Checking Acc't, National Bk. of Commerce in N. O. (Liquid)	100.26
In Savings Acc't, Whitney Nat'l Bk. (Liquid)	539.85
In Checking Acc't, Whitney Nat'l Bk. (Liquid)	717.14
	<hr/> \$1,461.68

In Savings Acc't, Hibernia Bk. & Trust Co. (Frozen) .....	281.42	
In Savings Acc't, Canal Bk. & Trust Co. (Frozen) .....	772.67	
In Checking Acc't, Canal Bk. & Trust Co. (Frozen) .....	344.23	
	<u>1,398.32</u>	\$2,860.00
<i>Received During Year From—</i>		
Interest on cash in Savings accounts in Banks .....	26.20	
Cash in Exchange of Liberty Bonds called in by Government .....	202.13	
Cash from Exchange of Old Bonds of Nat'l Union Mortgage Securities .....	489.33	
	<u>715.66</u>	3,575.66
<i>Dues and Journal "Oil and Soap"</i>		
Dues—Active 1934-35 (\$3.50 each) .....	973.00	
Dues—Individual Associate 1934-35 (\$3.50 each) .....	17.50	
Dues—Corporation Associate 1934-35 (\$7.50 each) .....	165.00	
Dues—Individual Associate 1935-36 (\$3.50 each) .....	3.50	
Dues—Active 1935-36 (\$3.50 each) .....	42.00	
	<u>1,201.00</u>	
<i>Members' Subscriptions to Journal "Oil and Soap"—</i>		
From Payments for year 1934-1935 .....	762.50	
From Payments for year 1935-1936 .....	32.50	
	<u>795.00</u>	1,996.00
<i>Referee Examining Board and Referee Chemists</i>		
Fees for Referee Chemist's Certification for year 1934-35....	165.00	165.00
Amounts Forward .....		<u>\$5,736.66</u>
<i>Fullers Earth and Kieselguhr</i>		
Sales of Fullers Earth .....	296.00	
Sales of Kieselguhr or Filtercel .....	8.00	
Collected for Postage and Express charges advanced on sales shipments .....	95.23	
	<u>399.23</u>	
<i>Standard Salts</i>		
Sales of Ammonium Sulphate..	18.00	
Sales of Sodium Carbonate....	30.00	
Collected for Postage advanced on sales shipments .....	8.12	
	<u>56.12</u>	
<i>Aluminum Moisture Dishes</i>		
Sales or Dishes .....	17.46	
Collected for Postage advanced on sales shipments .....	1.23	
	<u>18.69</u>	
<i>Color Glasses and Colorless Clear Glasses</i>		
No business done in this account.		
<i>Methods of Analysis</i>		
For Binders sold .....	80.00	
For sets of Methods complete including 1933 Revisions .....	10.25	
For sets of 1933 Revisions only .....	1.22	
For sets of Methods complete including 1934 Revisions .....	97.00	
For sets of 1934 Revisions and Soap Methods only .....	52.17	
Collected for Postage advanced on sales shipments .....	12.91	
	<u>253.55</u>	
<i>Conventions and Meetings</i>		
Receipts at Annual Spring Meeting, New Orleans, May 31st and June 1st, 1934 .....	223.00	
Cash in hands of Chicago Local Committee May 1st, 1934 .....	161.84	
Receipts at Fall Meeting, Chicago, Oct. 11th and 12th, 1934 .....	530.00	
	<u>914.84</u>	

<i>Smalley Foundation</i>	
For, Check Meal Samples 1934-1935 Series .....	870.00
	<u>870.00</u>
<i>Grand Total Cash Receipts.....</i>	<u>\$8,249.09</u>

<b>PAYMENTS</b>	
<i>Office of the Secretary-Treasurer</i>	
Salary of Secretary-Treasurer..	\$ 390.00
Salary of Clerical Help, Stenographer, etc. ....	390.00
Postage .....	34.01
Stationery, etc. ....	37.70
Office Supplies and Equipment...	10.20
Sundries Expenses, Bond of Secretary - Treasurer, Rent Safe Deposit Box, Telegrams, etc..	22.67
President's Contingent Fund, Expense, etc. ....	19.47
Exchange on Checks Deposited, Bank Handling fees, Federal Tax, etc. ....	17.67
	<u>\$ 921.72</u>
<i>Dues and Journal "Oil and Soap"</i>	
Advertisements in Journal "Oil and Soap" .....	420.00
Sundries Expenses, Telegrams, Postage, Expressage, etc.....	1.54
Printing .....	.....
Publishers Bills for Journal "Oil and Soap" .....	497.00
Journal Committee's Expenses (W. H. Irwin Chairman)....	37.00
	<u>955.54</u>
<i>Referee Examining Board and Referee Chemists</i>	
Postage .....	4.72
Sundries Expenses .....	.....
Printing .....	.....
	<u>4.72</u>
<i>Official Fullers Earth and Kieselguhr (Filtercel)</i>	
Postage advanced on sales shipments .....	90.98
Paper, Twine, Cartons, etc., and boy to make shipments .....	6.45
Printing Labels, etc. ....	12.75
New supply of Fullers Earth as prepared at Procter & Gamble Co. Plant, Ivorydale, O.....	334.30
Freight and Drayage charges on new supply of earth from Ivorydale, O. ....	45.71
	<u>490.19</u>
<i>Standard Salts</i>	
Postage advanced on sales shipments .....	7.20
Paper, Twine, etc., and boy to make shipments .....	1.00
	<u>8.20</u>
<i>Aluminum Moisture Dishes</i>	
Postage advanced on sales shipments .....	1.34
Paper, Twine, etc., and boy to make shipments .....	1.00
	<u>2.34</u>
Amounts Forwarded .....	<u>\$2,382.71</u>
<i>Color Glasses and Colorless Clear Glasses</i>	
Postage on Color Glasses returned .....	.35
	<u>.35</u>
<i>Methods of Analysis</i>	
Postage advanced on sales shipments .....	13.67
For 1934 Revisions and Soap Methods printed .....	120.38
For new lot of Binders for Methods .....	78.00
Paper, Twine, etc., and boy to make shipments .....	2.50
	<u>214.55</u>
<i>Conventions and Meetings</i>	
Annual Meeting in New Orleans, May 31st and June 1st, 1934:	
Meeting Expenses .....	\$ 6.00
Banquet and Entertainment Expenses .....	412.00
	<u>418.00</u>

Printing Programs, Notices, Badges, etc.....	100.90	
Postage, Telegrams, Expressage, Sundries Expenses .....	48.69	
		149.59
Fall Meeting, Chicago, Oct. 11 and 12, 1934 Expenditures as submitted by J. P. Harris, Treas. of Lccal Com.....	570.11	
		1,137.70
<i>Printing</i>		
1935 Membership Rolls.....	24.50	
		24.50
<i>Smalley Foundation</i>		
Cup Expense, Cleaning, Engraving .....	3.50	
Telegrams and Sundries Expenses .....	.67	
A. W. Putland, Chairman's General Expenses .....	447.11	
T. C. Law, Preparing and Sending Out check meal samples....	436.40	
		887.68
<b>GRAND TOTAL PAYMENTS.....</b>		<b>\$4,647.49</b>
<b>RECAPITULATION</b>		
Total Receipts .....	\$8,249.09	
Total Payments .....	4,647.49	
Total Cash Balances in Varicus Conditions as shown below....		\$3,601.60
<i>Cash Balances on Hand and in Banks May 1st, 1935</i>		
Available and in good shape:		
On hand in Petty		
Cash .....	\$ .11	
In checking acc't Nat'l Bk. of Commerce in N.O. ....	100.26	
In savings acc't Nat'l Bk. of Commerce in N.O. ....	254.65	
In savings acc't Hibernian Nat'l Bk. in N.O. ....	52.44	
In checking acc't Whitney Nat'l Bk. in N.O. ....	623.74	
In savings acc't in Whitney Nat'l Bk. in N.O. ....	1,050.35	
		\$2,081.55
Cash in hands of Chicago Local Committee .....		121.73
<i>Cash Frozen in Banks</i>		
In Savings Acc't Hibernia Bk. and Trust Co., in liquidation..	\$ 281.42	
In Savings Acc't Canal Bk. and and Trust Co. in liquidation..	772.67	
In Checking Acc't Canal Bk. and Trust Co., in liquidation..	344.23	
		1,398.32
Total Balance Liquid and Frozen Resources (April 30th, 1935)		\$3,601.60
Cash on hand and in banks (in Liquid State) including Chicago Deposits .....		\$2,203.28
(See Financial Statement)		
Cash frozen in old Hibernia Bank And Canal Bank and Trust Co. (See Financial Statement)		1,398.32
<i>Bonds and Securities</i>		
New Bonds of National Union Mortgages .....	1,600.00	
Chicago Medical Arts Bldg. (Participating Certificate) .....	1,500.00	
<i>Bills Receivable (April 30, 1935)</i>		
For Methods of Analysis and Revisions:		
Durkee Famous Foods, Inc., Chicago .....	\$2.11	
Western Chemical Industries, Ltd., Vancouver, Canada .....	2.11	
For Revisions (Permanent Mailing List Subscribers) .....	7.50	
		11.72

<i>Bills Receivable</i>	
For Fullers Earth, Filter Cel, Moisture Dishes, Standard Salts, etc.:	
Southern Cotton Oil Co., Gretna, La. ....	\$1.72
Swift & Co., Charlotte, N. C. ....	2.69
Lever Brothers Co., Buenos Aires, Argentine...	3.55
Armour & Co., Oklahoma City, Okla. ....	2.50
Wilson & Co., Chattanooga, Tenn.....	2.50
Seaboard Refining Co., New Orleans, La. ....	1.00
Vegetable Oil Products Co., Los Angeles, Cal..	4.54
The Texas Co., New York	2.34
The Picard Laboratories, Birmingham, Ala.....	1.15
	\$ 21.99
<i>Supplies and Materials on Hand (April 30, 1935)</i>	
Official Aluminum Moisture Dishes .....	3,400
Fullers Earth (4 lb. cans).....	480
Sodium Carbonate and Ammonium sulphate (4 oz. bottles).....	3,530
Colorless Clear Glasses for Tintometer for oils .....	230
Kieselguhr or FilterCel (Cans)....	270
Standard Glycerine Samples (bottles) .....	70
Methods of Analysis, Complete Sets (without Binders) .....	1,220
Binders for Methods of Analysis..	64
One set of 32 Standardized Red Lovibond Oil Color Glasses.	
<i>Liabilities</i>	
<i>Bills Payable (April 30th, 1935)</i>	
Postage and Envelope Bills of A. W. Putland, Chairman, Smalley Foundation .....	\$16.80
Miss F. McCann, Assisting A. W. Putland.....	14.00
Fred J. Ringley Co., Chicago, Printing Smalley Foundation Bulletins .....	24.75
Gillette Publishing Co., Chicago, Advertisement in April "Oil and Soap".....	35.00
Victory Printing Co., New Orleans, Invoice of 4-29-35 Letter Heads .....	11.50
Alphonse Goldsmith, New Orleans, Convention Badges .....	19.50
	\$121.55
<i>Report of Members Lost and Members Received Into the Society for Year and Status of the Membership of the Society May 23rd, 1935.</i>	
We have members as follows:	
Honorary .....	4
Active .....	322
Corporation Associate .....	21
Individual Associate .....	7
	354
Total Membership May 23rd, 1935.....	354
During the year May 30th, 1934, through May 23rd, 1935, we received new members as follows:	
Active .....	73
Individual Associate .....	1
Corporation Associate .....	1
	75
Total members Received .....	75
During the same period we have lost members as follows:	
By Death .....	2
By Resignation and Non-payment of Dues .....	21
	23
Total Members lost .....	23
Total Membership of the Society May 23rd, 1935.....	354
Total Membership of the Society May 30, 1934.....	302
	52
Net Gain of Members for year ending May 23rd, 1935.....	52
<b>MR. PRESIDENT:</b>	
In submitting this foregoing report, I ask that an auditing Committee be appointed to make a thorough audit of the accounts of the Secretary-Treasurer, and report back to the Society before the adjournment of this meeting May 24th, 1935.	
J. C. P. HELM, Secretary and Treasurer.	