

REPORT OF SMALLEY FOUNDATION COMMITTEE A. O. C. S. 1934-1935

THE tables attached to this report summarize the results of the cooperative analytical program of the Smalley Foundation for the past year. The program was concluded, as usual, with thirty samples. There were 73 collaborators participating, as compared to 81 for the season 1933-1934, and 76 for the season 1932-1933.

In table No. 1 we show the standing of 48 collaborators who reported oil determinations on all samples. In the two preceding years 60 and 49, respectively reported oil determinations on all the samples.

Table No. 2 shows the standing of 55 collaborators who reported ammonia results on all samples. This number compared with 67 and 55, respectively, for the two preceding seasons.

Table No. 3 gives the average for both oil and ammonia for the 48 collaborators who reported oil and ammonia on all samples. In the two preceding seasons 60 and 49

collaborators, respectively, reported oil and ammonia on all samples.

The winning collaborators are as follows:

The "Mississippi State Chemical Laboratory Cup" for the highest efficiency in the determination of both oil and ammonia on all samples is awarded to Analyst No. 16, Dr. W. F. Hand, Mississippi State College, State College, Miss., with an average of 99.977 per cent. The average efficiency is higher than that of last year, which was 99.959 per cent. Dr. Hand last year won the Battle Cup permanently. The certificate for second place goes to analyst No. 3, D. B. McIsaac, International Vegetable Oil Company, Savannah, Ga., with an efficiency of 99.947, as compared with 99.952 for last year. This certificate was won by the Southwestern Labora-

tories of Dallas, Texas, last year.

The certificate for the highest efficiency in determination of the oil only is awarded to Analyst No. 16, Dr. W. F. Hand, Mississippi State College, with an average of 99.974, as compared with 99.952 for last year. The certificate for second place goes to Analysts No. 3 and 39, Mr. D. B. McIsaac of Savannah, Ga., and the Geo. W. Gooch Laboratories, Los Angeles, Calif., with an efficiency of 99.926, as compared with 99.946 for last year.

The certificate for the highest efficiency in the determination of ammonia is awarded to analysts 20 and 42, the Barrow Agee Laboratories of Memphis, Tenn., who also won this certificate last year, and N. C. Hamner, Southwestern Laboratories, Dallas, Texas, with an average of 99.988, as compared with 99.983 for last year. The certificate for second place goes to Analyst No. 51, Geo. K. Redding, Larowe Milling Company, Ross-

TABLE NO. I

Analyst No.	Points Off	Percent Efficiency
16	6	99.974
3	17	99.926
39	17	99.926
11	19	99.919
2	21	99.910
68	24	99.897
26	28	99.880
45	30	99.871
54	30	99.871
53	32	99.862
37	33	99.858
42	33	99.858
22	34	99.854
50	39	99.832
28	40	99.828
38	40	99.828
13	42	99.819
24	43	99.815
63	43	99.815
55	44	99.810
47	45	99.806
43	53	99.771
64	53	99.771
70	54	99.767
66	56	99.758
60	56	99.758
15	58	99.751
30	58	99.751
58	58	99.751
20	62	99.725
59	62	99.725
67	65	99.719
71	68	99.707
12	73	99.686
62	77	99.668
33	78	99.664
21	79	99.660
6	81	99.651
9	84	99.638
56	84	99.638
65	104	99.549
49	109	99.531
1	117	99.496
41	118	99.492
29	120	99.483
10	121	99.479
34	137	99.409
7	207	99.108

TABLE NO. II

Analyst No.	Points Off	Percent Efficiency
20	3	99.988
42	3	99.988
51	4	99.984
16	5	99.979
45	5	99.979
3	8	99.967
37	8	99.967
50	8	99.967
68	8	99.967
2	9	99.963
38	12	99.951
25	13	99.947
9	15	99.938
56	15	99.938
66	15	99.938
13	19	99.922
11	21	99.913
7	22	99.910
54	22	99.910
62	22	99.910
67	24	99.901
47	25	99.897
58	27	99.889
60	30	99.876
22	31	99.873
55	31	99.873
28	32	99.868
36	32	99.868
43	32	99.868
53	32	99.868
29	33	99.864
30	33	99.864
33	33	99.864
21	35	99.855
63	36	99.852
12	38	99.843
15	43	99.823
70	43	99.823
39	44	99.818
65	44	99.818
71	44	99.818
41	45	99.814
24	46	99.811
34	46	99.811
59	46	99.811
48	52	99.786
49	57	99.765
46	59	99.756
19	64	99.737
64	70	99.712
1	86	99.645
69	87	99.641
27	123	99.493
10	152	99.373

TABLE NO. III

Analyst No.	Percent Efficiency
16	99.977
3	99.947
39	99.937
2	99.932
68	99.927
45	99.924
42	99.916
11	99.913
50	99.901
38	99.891
54	99.891
36	99.874
13	99.872
39	99.871
52	99.865
20	99.863
22	99.863
47	99.853
66	99.850
28	99.848
55	99.842
63	99.834
58	99.821
43	99.820
60	99.819
24	99.813
67	99.812
30	99.808
70	99.796
9	99.791
56	99.791
62	99.791
15	99.788
59	99.772
12	99.766
33	99.766
21	99.764
71	99.760
21	99.760
64	99.741
6	99.720
65	99.686
29	99.678
41	99.657
49	99.650
34	99.614
1	99.575
7	99.518
10	99.425

ford, Ohio, with an average of 99.984, as compared with 99.970 for last year.

The foregoing comparisons show that the percentage of efficiency for oil, ammonia, and the combined oil and ammonia work is higher than that for last year.

In concluding this report your

committee feels that the Society owes again to Mr. Thomas C. Law a tremendous debt for his care and attention in preparing and mailing the samples.

Personnel of committee:

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