

Beer Analysis Check Service

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CONCLUSION

With two cancellations but six new subscriptions in 1979, the membership has grown to the present record level of 42, testifying to the usefulness of the service.

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RECOMMENDATIONS

1. Operation of the BACS Subcommittee should be continued.
2. The use of the revised reporting form, also listing all the one-time-only analyses performed in the previous years, should be retained because it allows the analysts to perform as many of the analyses as desired as frequently as desired.
3. The first 1980 sample should be a light (brewed) beer.

RESULTS AND DISCUSSION

The first 1979 sample included a request for an additional determination of calcium. In order to enrich the service and make it more responsive to needs to members, the one-time-only analyses

TABLE I
Results of the Analyses of the Two BACS 1979 Samples^a

Analysis	Sample A-79						Sample B-79					
	\bar{X}	SD	Max. ^b	Min. ^c	c.v. ^d	Labs. (n)	\bar{X}	SD	Max.	Min.	c.v.	Labs. (n)
Apparent extract, °P	2.141	0.022	2.20	2.10	1.0	30	1.791	0.032	1.86	1.73	1.8	29
Alcohol, % by wt	3.644	0.041	3.74	3.56	1.1	31	3.783	0.066	3.93	3.67	1.7	30
Real extract, % by wt	3.811	0.031	3.87	3.75	0.8	30	3.521	0.023	3.57	3.47	0.7	28
Color, SRM	2.81	0.15	3.0	2.4	5.3	30	2.512	0.207	3.01	2.0	8.2	30
pH	4.149	0.034	4.21	4.09	0.8	30	4.243	0.055	4.31	3.10	1.3	29
Bitterness, units	13.75	0.93	16.0	12.0	6.8	29	12.433	0.55	13.5	11.5	4.4	29
Protein, % by wt	0.302	0.025	0.35	0.22	8.3	24	0.294	0.038	0.32	0.21	12.9	22
Reducing sugars, % by wt	1.129	0.110	1.33	0.92	9.7	16	0.999	0.063	1.14	0.92	6.3	14
Iron, mg/L	0.089	0.035	0.16	0.03	39.3	27	0.166	0.042	0.237	0.07	25.3	26
Copper, mg/L	0.041	0.018	0.08	0.01	43.9	26	0.063	0.029	0.13	0.02	46.0	23
Diacetyl, mg/L	0.050	0.027	0.12	0.01	54.0	26	0.038	0.018	0.08	0.01	47.4	26
Total acidity, as % lactic acid	...	...	...	...	...	...	0.127	0.012	0.15	0.11	9.4	16
SO ₂ , mg/L	...	...	...	...	...	...	4.35	1.94	9.3	0.3	44.6	26
Calcium, mg/L	60.0	4.00	70.0	50.0	6.7	26	63.18	8.19	84.0	44.0	13.0	27
RFE, ^e % by wt	...	...	...	...	...	...	0.082	0.057	0.20	0.01	69.5	18
Sodium, mg/L	...	...	...	...	...	...	79.93	17.39	106.0	28.0	21.7	16
Chloride, mg/L	...	...	...	...	...	...	173.0	26.90	220.0	125.0	15.5	14

^a From ASBC "Methods of Analysis" (1). Where alternate methods are given, the method used is the one chosen by the individual collaborator.

^b Maximum value reported.

^c Minimum value reported.

^d Coefficient of variation.

^e Residual fermentable extract.

were discontinued. The new format, introduced with the second 1979 sample, included optional determinations of some or all of the parameters used previously. A revised reporting form was employed. The response of the membership to the new format was most positive.

The BACS continues to exchange analytical results with the Analytical Committee of the European Brewery Convention.

The results of the analysis of the two BACS 1979 samples are listed in Table I.

LITERATURE CITED

1. American Society of Brewing Chemists. Methods of Analysis (7th ed.). The Society: St. Paul, MN, 1976.