

## THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

### AFFILIATED ACADEMIES OF SCIENCE

THE American Association for the Advancement of Science fulfills its function as an integrating agency in science to a large extent through its affiliated and associated societies. At present there are 179 of these societies, the total membership of which, including duplicates, is nearly 1,000,000. Such organizations as the American Medical Association and the National Education Association have very large numbers of members.

Among the affiliated societies, the academies of science constitute a special class. As a rule their interests include all the natural sciences, and consequently they serve also as integrating agencies in their respective territories, which are usually states. For this reason the association extends to the affiliated academies every possible assistance, including allowances for the aid of research, the amounts depending on the numbers of their members who are also members of the association. In many cases the association can more effectively advance science through its affiliated academies than directly.

The membership of an academy of science is at least a rough measure of the scientific activity in its territory, for it draws its members from the colleges, secondary schools, industrial laboratories and amateurs. In turn the academy not only affects the science in the educational institutions in its territory, but it influences the scientific activities of state and local governments, and often plays important rôles in problems of utilization and conservation of natural resources and in problems of public health.

Certain statistics for the 33 academies affiliated with the association will now be presented. These statistics should not be given undue weight because the conditions under which the academies operate vary to an appreciable degree; yet they are indicative of the scientific activities in the territories to which they pertain. Another item of significance is the percentage of the members of an academy who are members of the association. Naturally the membership of an academy depends upon the total population of

the territory from which it is drawn. In order to reduce the membership figures to a comparable basis in respect to population, the number of members per 100,000 of total population are presented. It will be seen from Table 1 that the variations in the numbers

TABLE I  
MEMBERSHIP OF AFFILIATED ACADEMIES

Academy	(a)	(b)	(c)	(d)	(e)
Alabama .....	133	293	120.3	10.4	20.1
American Institute ..	...	510	...	...	24.0
British Columbia ..	...	97	...	...	15.5
Colorado-Wyoming ..	238	290	21.8	21.1	30.5
Florida .....	220	346	57.3	18.2	23.1
Georgia .....	106	122	15.1	3.9	41.8
Illinois .....	1,094	1,151	5.2	14.6	31.5
Indiana .....	888	1,051	18.4	30.7	26.1
Iowa .....	624	614	- 1.6	24.2	39.4
Kansas .....	334	611	83.5	34.0	23.5
Kentucky .....	237	333	40.5	11.7	26.1
Louisiana .....	186	192	8.1	8.1	20.8
New Orleans .....	249	297	19.3	60.0	26.3
La. and New Orl. ....	435	489	12.4	20.7	23.9
Maryland .....	...	38	...	2.1	71.1
Michigan .....	1,055	1,034	- 2.0	19.7	27.0
Minnesota .....	409	681	66.5	24.4	32.3
Mississippi .....	...	113	...	5.2	10.6
Missouri .....	820	752	- 8.3	19.9	22.3
St. Louis .....	118	409	246.6	50.1	25.2
Mo. and St. L. ....	938	1,161	23.8	25.2	23.3
Nebraska .....	198	287	44.9	21.8	31.4
New Hampshire .....	145	212	46.2	43.1	25.0
North Carolina .....	223	335	50.2	9.4	41.2
North Dakota .....	...	...	...	...	...
N. W. Sci. Assn. ....	...	528	...	...	15.7
Ohio .....	462	678	46.7	9.8	51.2
Oklahoma .....	365	313	- 14.2	13.4	25.9
Pennsylvania .....	452	424	- 6.2	42.8	39.9
South Carolina .....	225	187	- 16.9	9.8	27.3
Tennessee .....	349	418	19.8	14.3	26.3
Texas .....	475	651	37.1	10.1	30.9
Virginia .....	686	855	24.6	31.9	25.4
West Virginia .....	254	305	20.1	16.0	23.0
Wisconsin .....	375	322	- 14.1	10.3	55.7

(a) Number of members in 1936 as reported by the secretaries of the academies.

(b) Number of members in 1940 as reported by the secretaries of the academies.

(c) Percentage change.

(d) Members in 1940 per 100,000 population of state or area.

(e) Percentage of members in 1940 who are members of the Association.

of members relative to populations are very large. Likewise the rates at which the memberships of the academies changed in the interval 1936-1940 have varied widely.

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## SPECIAL ARTICLES

### A CASEIN DIGEST BY VEIN UTILIZED TO FORM BLOOD PLASMA PROTEIN<sup>1</sup>

To be able to feed an individual by other than the oral route has been the desire of investigators and medical men for many years. Many patients could be benefited and many experiments could be performed

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if such a technique were available. One difficulty has been the parenteral administration of the protein requirements. Henriques and Anderson<sup>2</sup> achieved first success with an enzymatic digest of meat. Holman, Mahoney and Whipple<sup>3</sup> found that the protein of

<sup>2</sup> V. Henriques and A. C. Anderson, *Zeit. f. Physiol. Chem.*, 88: 357, 1913.

<sup>3</sup> R. L. Holman, E. B. Mahoney and G. H. Whipple, *Jour. Exp. Med.*, 59: 269, 1934.