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## AGRICULTURAL RESEARCH IN CHINA\*

By H. K. HAYES

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DURING the summer of 1936 the writer visited many of the agricultural research institutions in Central and Northern China and observed the nature and extent of the investigations under way. From published papers in other countries which refer to work in China, such as the yearbook for 1936 of the United States Department of Agriculture which so adequately has summarized plant and animal breeding in the United States, it is apparent that there is little appreciation of the extent and nature of similar work in China. This is not strange, as until very recently there have been no adequate summaries in English. As the writer has been associated with leaders in agricultural research, affiliated with the Central Government of China or with various provincial departments and agricultural colleges, it seemed possible to make a survey that would give some idea of the nature and development of agricultural research in China in re-

\* Address of the vice-president and chairman of the Section on Agriculture, American Association for the Advancement of Science, Atlantic City, December, 1936.

cent years. Data for this survey have been collected through correspondence with workers in various provinces and from members of the National Agricultural Research Bureau<sup>1</sup> in Nanking who are in touch with special phases of research throughout China. A summary by Director K. S. Sie,<sup>2</sup> of the National Agricultural Research Bureau, in the Chinese Year Book for 1935-36 has been of special value. The writer is greatly indebted to those who have so kindly made this information available.<sup>3</sup>

<sup>1</sup> The Nat. Agr. Res. Bur. Ministry of Industry. Miscellaneous Pub. No. 1. 1934.

<sup>2</sup> K. S. Sie, "The Chinese Year Book," pp. 731-768. 1935-36.

<sup>3</sup> The writer appreciates the helpful suggestions of the following members of the National Agricultural Research Bureau and of the National Rice and Wheat Improvement Institute: K. S. Sie, T. H. Chien, L. F. Chao, T. H. Shen (see Proceedings 5th Pacific Science Congress, pp. 573-579, 1933, Univ. of Toronto Press, and "A Coordinated Program of Wheat Breeding in China," in press, 1936), C. L. Pan, F. C. Woo, P. T. Sun, C. C. Kwan, S. C. Cheng, H. Tai, N. F. Chang, W. S. Tong and K. Ling. Paper

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