

Biometeorology in Relation To Productivity

A working conference is proposed to deal with the methods of data collection, the nature of critical measurements, and the planning for data-collecting service. Two approaches are needed: (1) analysis of the over-all balance of CO_2 , O_2 , H_2O , N_2 and temperature of the atmosphere in relation to long-term trends and their biological consequences, and (2) analysis of the microclimates of plants and animals in relation to their physiology. Physical scientists and biologists are expected to pool their techniques and interests in a research plan. It is anticipated that a close collaboration will be established between Environmental Physiology and a joint Biometeorological Panel of the IBP and the Committee on Atmospheric Sciences of the National Academy of Sciences. Liaison will be maintained by Dr. F. Sargent of Human Adaptability. The Subcommittee representative is Dr. Wallace O. Fenn. An appropriate organizer of this conference would be David Gates (Missouri Botanical Garden).

Other Conferences That Are Anticipated But Not Planned in DetailPhysiological factors in human fertility

A conference dealing with the physiology of reproduction as opposed to the demographic aspects of the subject is proposed. Consideration will be given to fecundity, fertility, fetal wastage, placental properties, age span of reproduction, intelligence, cultural level, and related parameters. Programs of research are to be formulated. This conference is to be jointly sponsored with Human Adaptability. The Environmental Physiology representatives are W. O. Fenn and T. Dobzhansky.

Extrapolations from the dynamics of animal populations to human populations.

This conference would examine the biological and physical limitations on the growth and regulation of natural and artificial populations of animals. The question of whether principles derived from such studies can be applied to man will be of prime concern. Plans for observations that might provide critical data will be made. It is proposed that this conference be sponsored jointly by Human Adaptability and Systematics and Biogeography. It is suggested that Thomas Park assist in organizing this conference.