

Climatic characteristics

THE HYTERGRAPHS OF THE COCONUT DISTRICTS IN THE PHILIPPINES

9 The hytergraph - Besides suitable soil conditions, the two chief ^{factors} controls which determine the suitability of a region for plant life are temperature and rainfall. Plants are very sensitive to seasonal variations of heat and moisture. Recently a method has been devised to represent graphically the monthly distribution of both elements temperature and rainfall. ⁽¹⁾ With temperature as ordinates and rainfall as abscissae, the twelve ~~monthly~~ ^{monthly} averages are plotted for the locality required. The twelve-sided polygon thus obtained is called the hytergraph. It represents the joint effect of heat and rainfall in a two-dimensional graph. Great range of rainfall ^{alone} is represented by a narrow hytergraph, but elongated and almost parallel to the axis of the abscissae; ^{while} great range of temperature ^{alone} is indicated by a thin almost vertical hytergraph. A climate with great range both of temperature and rainfall would be shown by a long ^{and} wide irregular dodecagon.

9 The purpose of the present paper is to apply this method to the coconut regions of our archipelago.

109 It is believed that the graphic representation of the simultaneous variation of temperature and rainfall in the different districts and the information herein presented for the first time will be useful to the coconut planter and to the manufacturers of the various coconut products. It is hoped that this effort of the Weather Bureau to apply its information to the agricultural problems of our islands will be welcomed both by the coconut planter and the copra and oil ^{producer} industry.

Economic status of the coconut - It has been estimated that ^{the} in whole world, 1) the number of coconut trees planted is over 10000 millien, 2) that the number of palms in bearing is over 500 millien, and 3) that the ^{area} surface