The natural Factors and their suitability for Sugarcane Succharum officinarum L. cultivation in

Divala Governorate.

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ABSTRACT

Study of the natural factors namely, Geographic site, climatic factors, irrigation resources and

soil characteristics were investigated in Diyala Governorate. The aim of study was to Know the

capability and suitability of Sugarcane Succharum officinarum L. cultivation and its economic

industrialization in Diyala Governorate. The following results showed: 1. As the governorate is

situated between latitudes 33° 11 and 35° 28 north of equator, so that it is considered as part of

sugarcane productive region . 2. Middling of mean temperature during the first months of the

crop growth (tillering stage). Then, gradually increases during months which are coincident with

the great vegetative growth stage. Followed, by gradual decrease of temperature during both

early and late maturity stages are considered of significant positive effect on the crop growth and

maturity. 3. Coincident of lightly duration length with the increase of temperature during Sugar

cane growth stage is considered of magnificent favorable condition for the crop growth and

maturity. 4. Total mean yearly rainfall in the governorate is about 169.4 mm. This indicates that

Sugarcane cultivation is impossible without using other irrigation resources.

Key Words: Sugarcane, Climate factors, Irrigation resources, Soil, Diyala Governorate.