

## Factors Affecting The Sugarcane Yield And Sugar Recovery

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The age of sugarcane can affect yield because the higher the number of ratoon periods, the higher the demand of inputs used, especially the application of urea. Among the challenges, about 31% of the interviewed SSGs lists the cost of fertiliser as an essential factor to consider when deciding on fertiliser use and soil recommendations since they make little or no profit after harvest ( Table 3 ).

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Ratooning ability effect on sugarcane yield was also detected because crop class was one of the most important management variables explaining final cane yield. CART results showed that values higher than 2.5 consecutive ratoon crops were mainly associated to low and medium cane yields .

*An analysis of the factors that influence sugarcane yield ...*

declining sugarcane production yield by SSGs cannot be attributed to climate change alone but also to poor agronomic practices, and numerous factors that still need further investigation. Agriculture2019, 9, 170 3 of 14 Although numerous studies have researched the reasons for the decline in sugarcane production,

*Factors Affecting Sugarcane Production by Small-Scale ...*

Maximum water demand of sugarcane is at the tillering and grand growth stages. Optimal watering significantly extends ratoon life and can significantly increase sugarcane yield. Effect of water stress on sugarcane: Water stress during the grand growth stage reduces both total yield as well as sucrose yield. On the other hand, imposing water stress during maturation phase increases sucrose yields. Effect of excess irrigation on sugarcane:

*Irrigation management in sugarcane | Cropaia*

Few field studies have been conducted to determine the factors responsible for yield variation in different cultivars of sugarcane at different crop ages, and the physiology of yield accumulation has rarely been examined on a dry matter basis with all yield components, including tops, millable stalk, trash, and roots.

*Yield Accumulation in Irrigated Sugarcane: I. Effect of ...*

Commercial cane sugar was influenced by the year of harvest, the month of harvest and their interaction, in that the influence of the month of harvest varied from year to year. Variety and farm differences were also significant but accounted for a much lower portion of the variation in commercial cane sugar. An empirical model was constructed from the key factors that influenced commercial cane sugar and cane yield to quantify their combined influence on sugar yield (t/ha).

*Factors affecting cane yield and commercial cane sugar in ...*

variable rainfall, tenure insecurity, weak agricultural research base and extension system, lack of financial. services, imperfect agricultural markets and poor infrastructure. Sugarcane, as one of agricultural products, is used as the primary input in the production of sugar.

*The Determinant Factors of Sugarcane Productivity: The ...*

In the first phase, bright sun with high humidity as well as an optimum level of rainfall are required, while during the ripening phase, dry weather with less precipitation is needed; otherwise ...

*(PDF) Analysis of the Factors affecting Sugarcane ...*

Factors Affecting The Sugarcane Yield The age of sugarcane can affect yield because the higher the number of ratoon periods, the higher the demand of inputs used, especially the application of urea.

# Access Free Factors Affecting The Sugarcane Yield And Sugar Recovery

## *Factors Affecting The Sugarcane Yield And Sugar Recovery*

Kouzi studied the effects of different cane conditions in the field on dextran level in cane juice (e.g., burning, chopping, delay between cutting and milling, and type of ratoon) and factors affecting levels of dextran during processing. The most important five criteria are, namely, polarization (Pol), apparent purity, pH, viscosity, and commercial cane sugar (CCS) of the cane juice; besides dextran content of juice has been used to measure the cane deterioration.

## *Analysis of Sugarcane Juice Quality Indexes*

The study reveals that the costs of inputs of sugarcane i.e. urea, DAP, FYM, land preparation, seed and its application, weeding and cost of irrigation were the important factors which influenced...

## *(PDF) Factors Affecting Sugarcane Production by Small ...*

Weather and climate related events (i.e., growth environment of atmospheric [CO<sub>2</sub>], temperature, precipitation, and other extreme weather) are the key factors for sugarcane production worldwide, especially in many developing countries.

## *Climate Change and Sugarcane Production: Potential Impact ...*

The study reveals that the costs of inputs of sugarcane i.e. urea, DAP, FYM, land preparation, seed and its application, weeding and cost of irrigation were the important factors which influenced on the returns of sugarcane growers.

## *Factors Affecting Sugarcane Production in Pakistan*

The role of climate in these changes was investigated by first using principal component analysis then stepwise regression to predict sugarcane and sugar yield. 'Mild drought conditions', an increase in the diurnal temperature range and cool conditions during the ripening and maturation period are favourable for sugar yield.

## *On the use of mean and extreme climate indices to predict ...*

Another factor that affects sugarcane ripening is the flowering process (Silva and Caputo, 2012). Sugarcane flowering is influenced by photoperiod, temperature, rainfall, nutritional status, soil moisture, cultivar and crop management, and is highly undesirable from the sugar production point of view (Alexander, 1973; Pereira et al., 1983).

## *Climatic effects on sugarcane ripening under the influence ...*

Area, production and yield of sugarcane in major growing countries: Brazil is major sugarcane producing country with an area about 90.77 lakh ha and production of about 717.46 Million ton followed by India. Sugarcane productivity is highest ... low temperature deteriorate the juice quality and thus affecting the sugar quality.

## *Status Paper on Sugarcane - Farmer*

Frequent irrigation result in over irrigation and create water logging and salinity problem which can reduce the sugarcane yield [ 24 ]. Temperature changes also affect the ripening of sugarcane. During winter, low temperature is very important for natural ripening.

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*Sugarcane Production under Changing Climate: Effects of ...*

Environmental Factors: What and How Do They Affect Crop Growth and Yield

Environmental factors are those non-genetic factors which contribute to the characteristics of a plant. In other words, they are the components of all factors which influence plant growth and development to the exclusion of the genetic factors.

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