

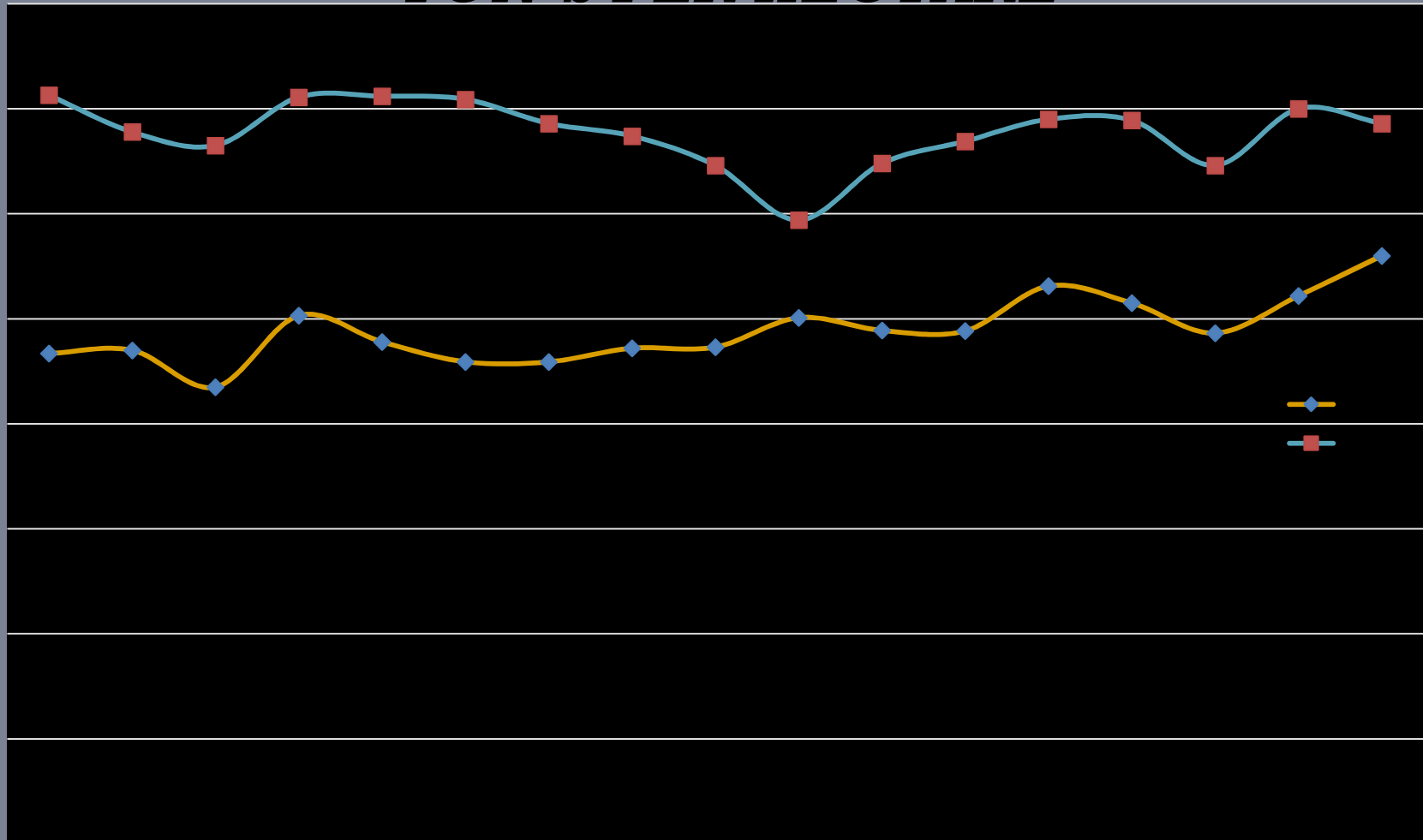
بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ
الْحَمْدُ لِلَّهِ الَّذِي
خَلَقَ السَّمَوَاتِ وَالْأَرْضَ
وَالَّذِي يُضَوِّبُ الْمَاءَ
فَإِذَا رَزَقْنَاهُ
سَأَىٰ كَالْخَمِيرِ
وَالَّذِي يُصَوِّرُ
الْبَشَرَ فِي أَحْسَنِ
تَقْوِيمٍ
سُبْحَانَ اللَّهِ عَمَّا يُشْرِكُونَ
اللَّهُ أَكْبَرُ عَمَّا يُشْرِكُونَ

***ROLE OF IRRIGATION IN AFFECTING SUGAR
CANE YIELD***

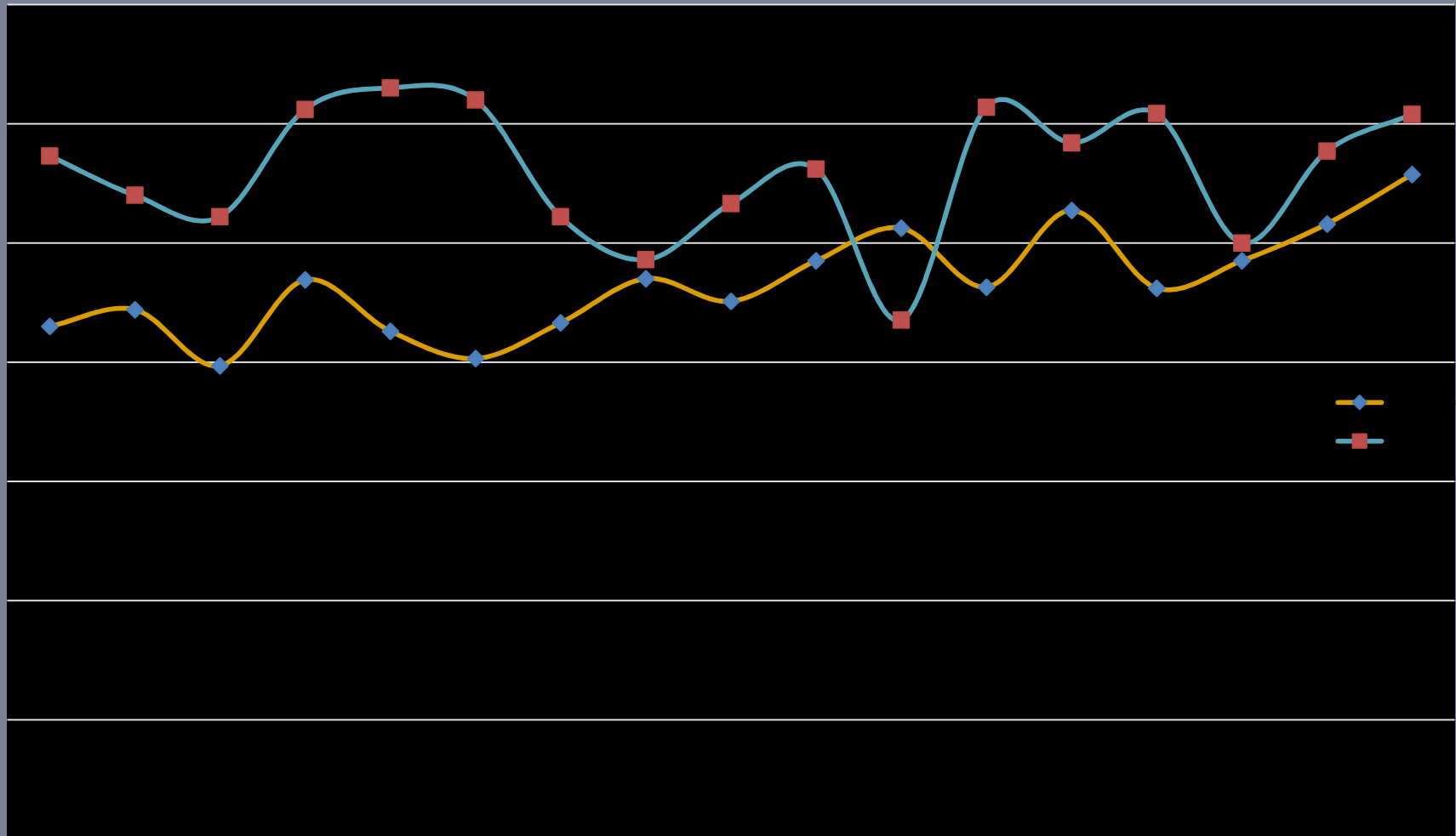
By:

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SHAHMURAD SUGAR MILL'S LIMITED
JHOK SHARIF

SUGAR CANE YEILD OF INDIA AND PAKISTAN TON'S PER HECTARE



SUGAR CANE YEILD OF PUNJAB AND SINDH (TON'S PER HECTARE)



IMPORATACE OF WATER AND SOIL FOR SUGAR CANE

- Water is an important component for plant growth. It constitutes three-fourth of the body weight of the plant
- Water is retained around soil particles. The upper limit for water retention is Field capacity. The available soil moisture is between field capacity and permanent wilting point.
- Water is supplied either by rain or irrigation.
- Soil acts as reservoir of water for the plants. Available moisture to the plant Is between Field capacity and Permanent Wilting Point

IMPORTANCE OF WATER AND SOIL FOR SUGAR CANE

- Sugarcane has a fibrous root system which penetrates as deep as 2.5 meters in a well drained soil.
- The critical phases for sugarcane are: Germination phase (planting to 60th day),
- In most of sugarcane growing countries 2 – 3 months dry and hot pre monsoon period is crucial for irrigation of young crop. Formative phase (from 60th to 130th days), grand growth phase (from 130th to 250th day) and maturity phase (from 250th day to 365th day).
- Drainage of excess water from root zone is equally important.

PERSIAN WHEEL TRADITIONAL IRRIGATION



FLOOD IRRIGATION



CONCRETE LINED CANAL



SYPHON FURROW IRRIGATION



SPRINCKLER IRRIGATION

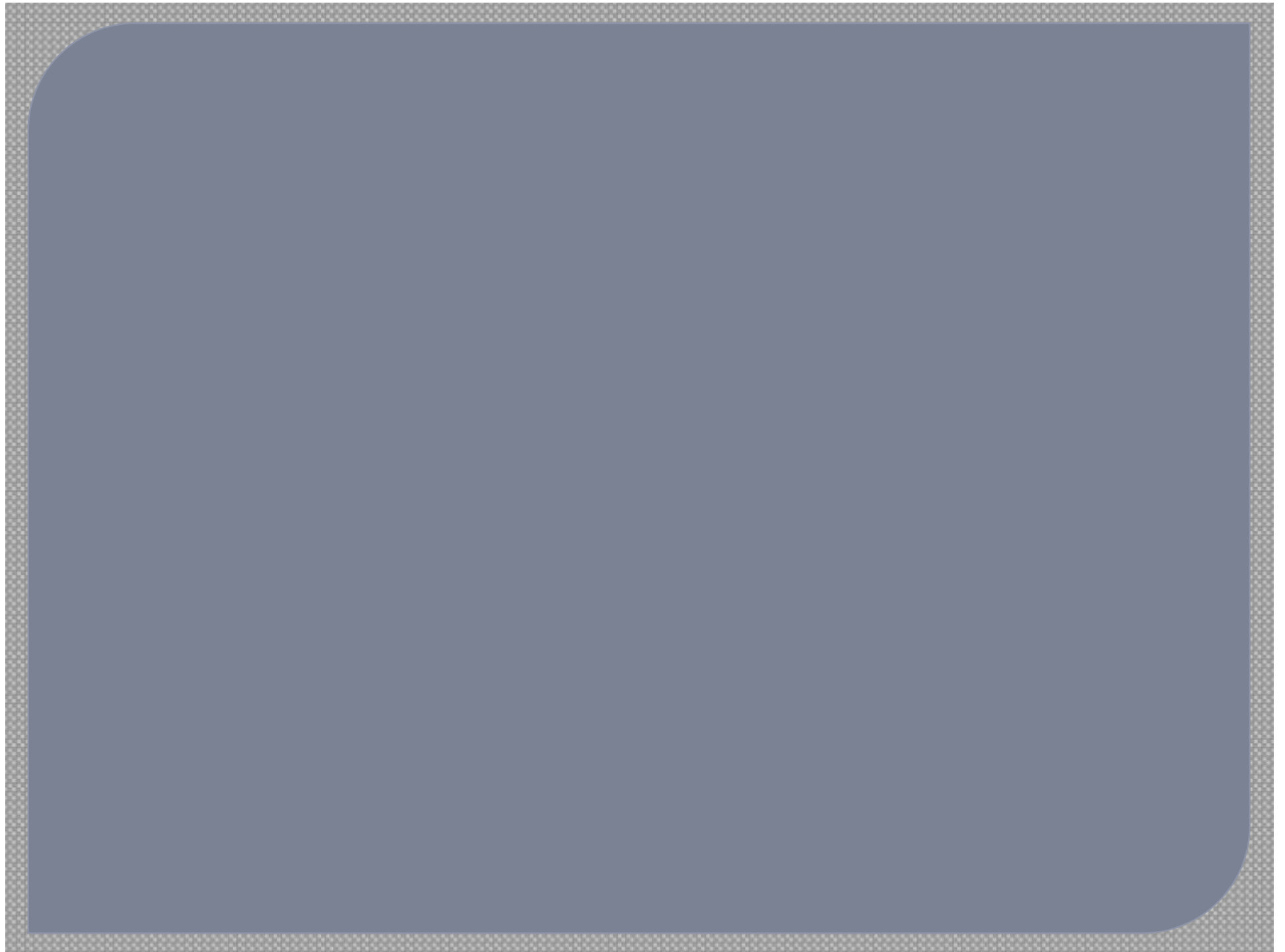


DRIP IRRIGATION SYSTEM



DRIP IRRIGATION







Thanks

18 8 2003