

**CORRELATION OF WATER CONSUMPTION DURING IRRIGATION
OF COTTON WITH THE DYNAMICS OF FLOOD WATER LEVELS
MATHEMATICAL MODEL**

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ABSTRACT

This article provides information on the creation of a mathematical model of water consumption in the irrigation of cotton, depending on the change in the level of seepage water during the movement of salts and soil moisture. The world has 1,500 million hectares of drylands and 932 million hectares of saline soils, of which 32 million hectares are directly affected by salts. . A similar situation was observed in the Jizzakh and Khorezm regions, and it was noted that, respectively, the increase in the level of flood waters has changed.

KEYWORDS: *Groundwater Level, Mathematical Model, Elements, Soil, Soil Moisture, Soil Saturation, Equation, Aeration, Formula.*

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