

EFFECT OF TEMPERATURE VARIATION ON FIBER QUALITY MEASUREMENTS

Dr. Mohamed Negm

Dr. Suzan Sanad

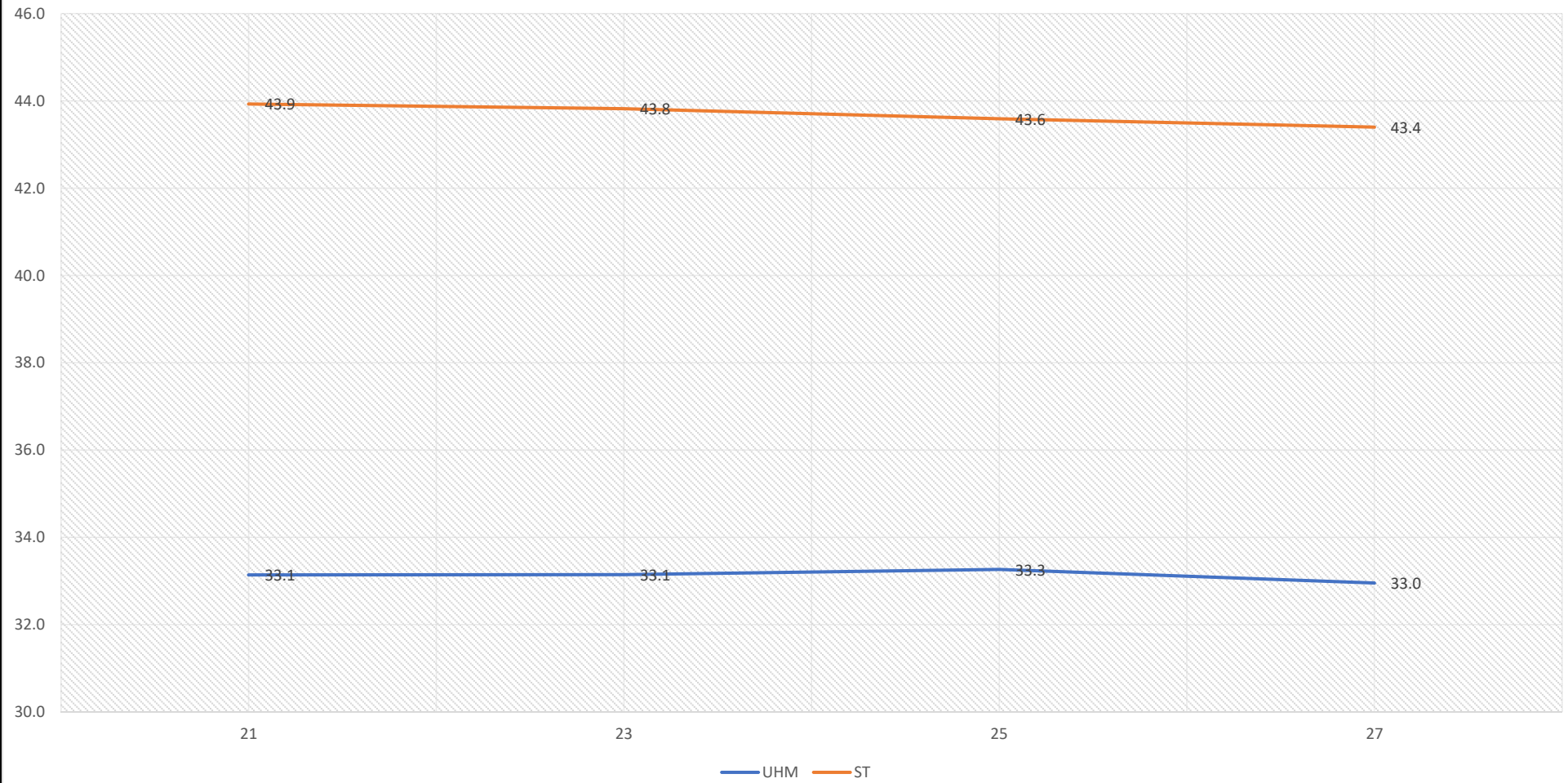
COTTON RESEARCH INSTITUTE
GIZA_EGYPT



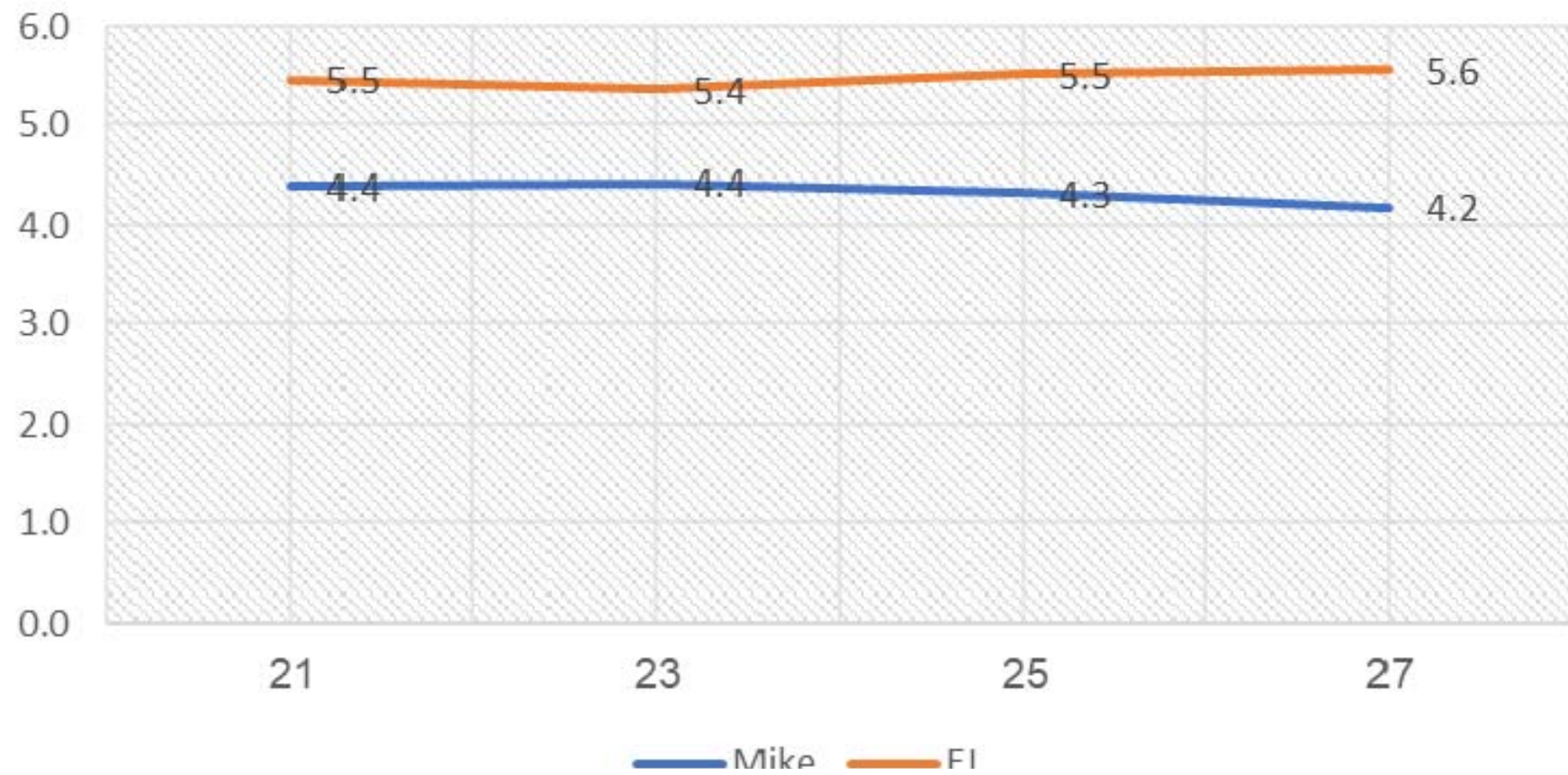
- **The objective of this study was to determine the influence of temperature variation on fiber quality measurements. Two Egyptian Long Staple variety, Giza 86 and Giza 95, were tested in Cotton Arbitration & Testing General Organization, GATGO.**

- Fiber were determined according to ASTM method. (A.S.T.M., D-1776) for the fiber length, fiber tenacity "Strength and Elongation" and Micronaire reading were tested by HVI 700.
- Fiber properties were determined under standard conditions of $65 \pm 2\%$ relative humidity and 21, 23, 25 and 27 °C temperature variation.

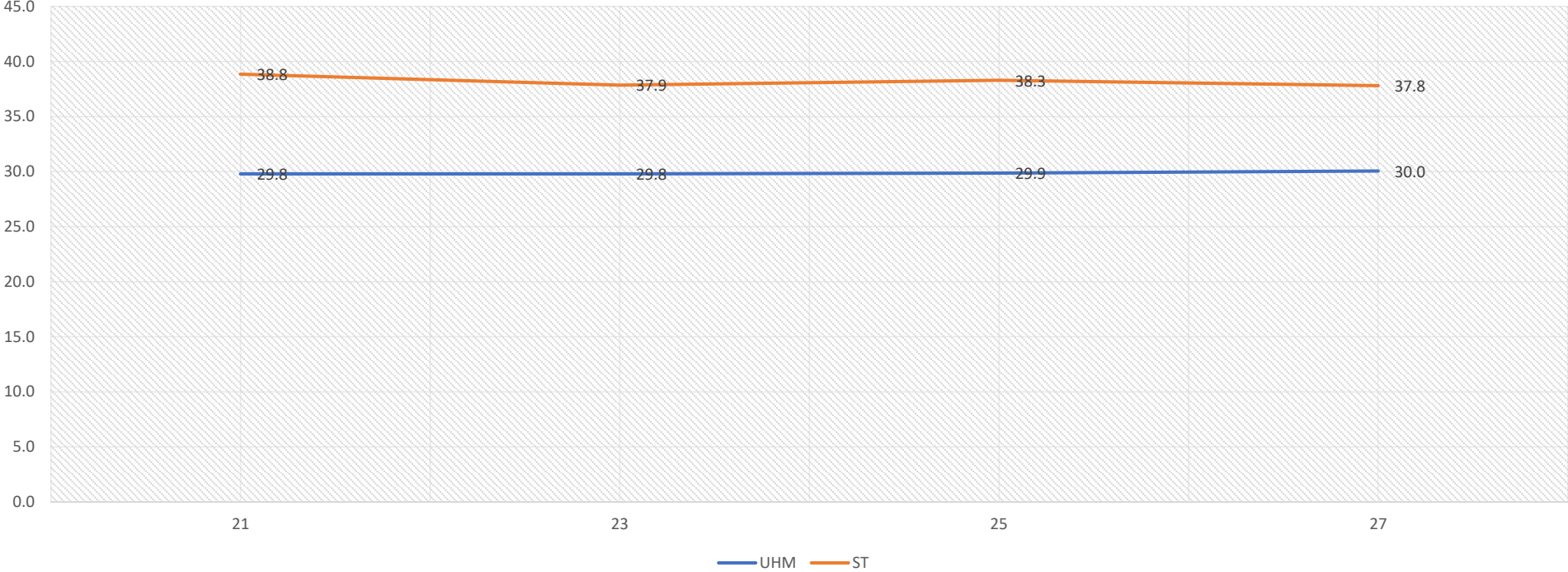
GIZA 86



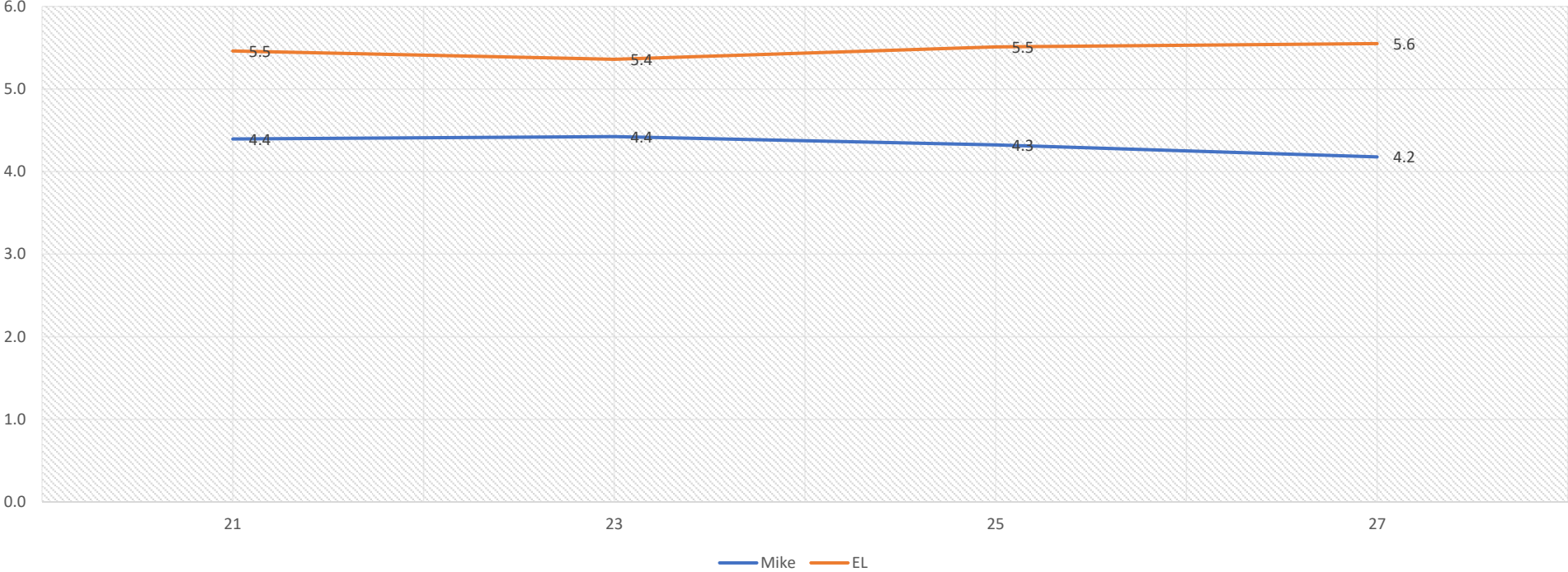
GIZA 86



GIZA 95



GIZA 86



The results revealed that the changing in temperature does not affect the fiber quality properties, i.e., fiber length, fiber tenacity, Micronaire reading and Elongation. The variation were insignificant.



Thank you.

