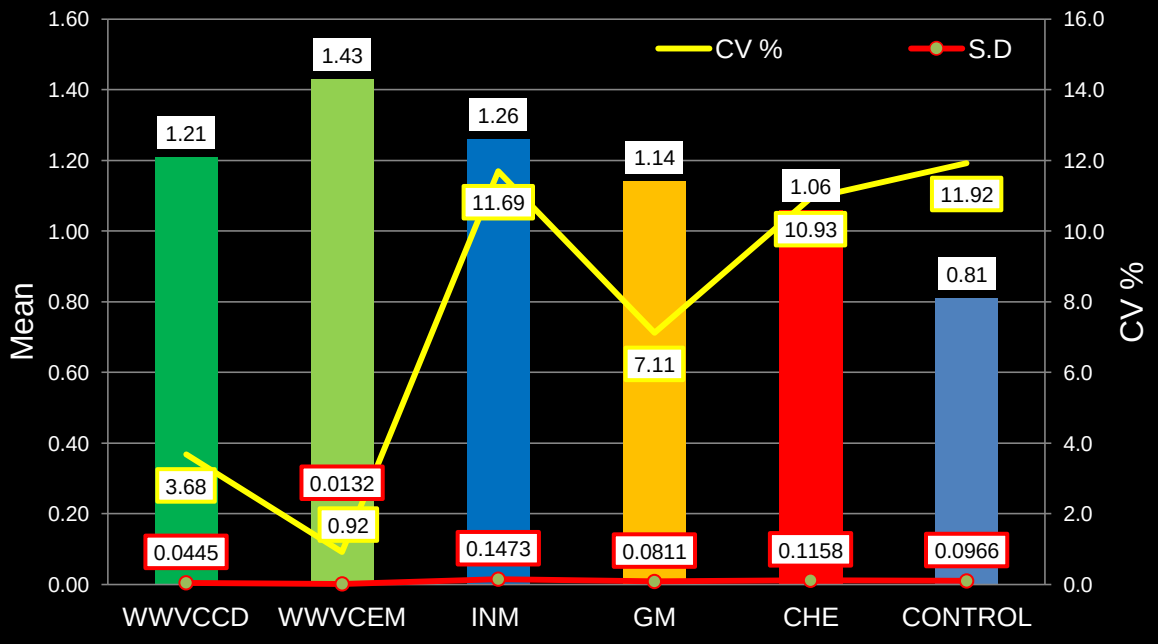


FIGURE I

THE WEIGHT OF KAPAS FROM VARIOUS TREATMENTS

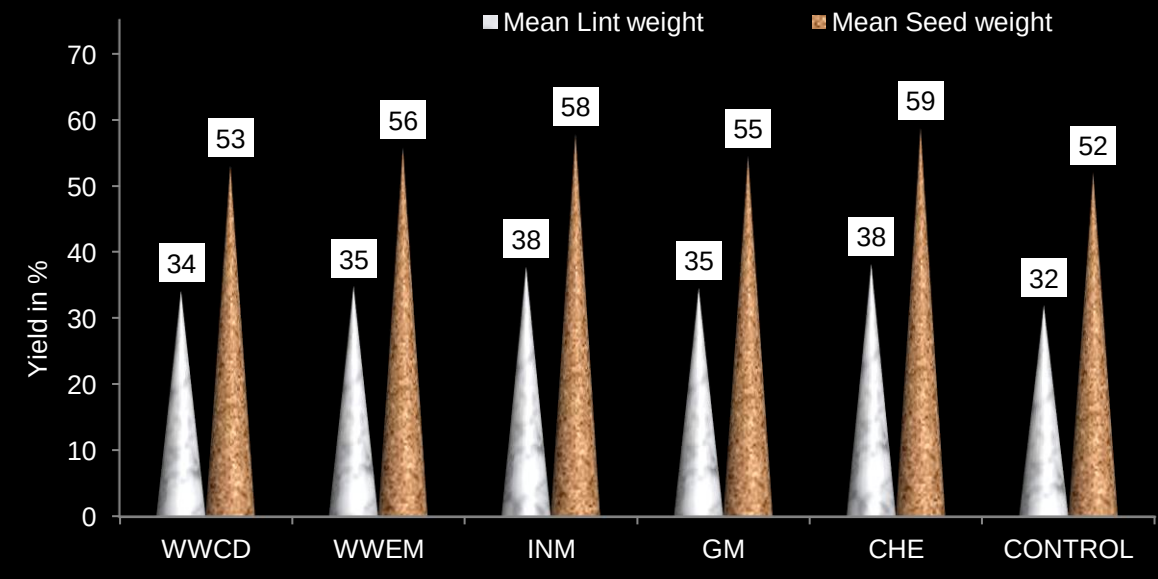


FIGURE II

THE LINT WEIGHT AND SEED WEIGHT BETWEEN TREATMENTS

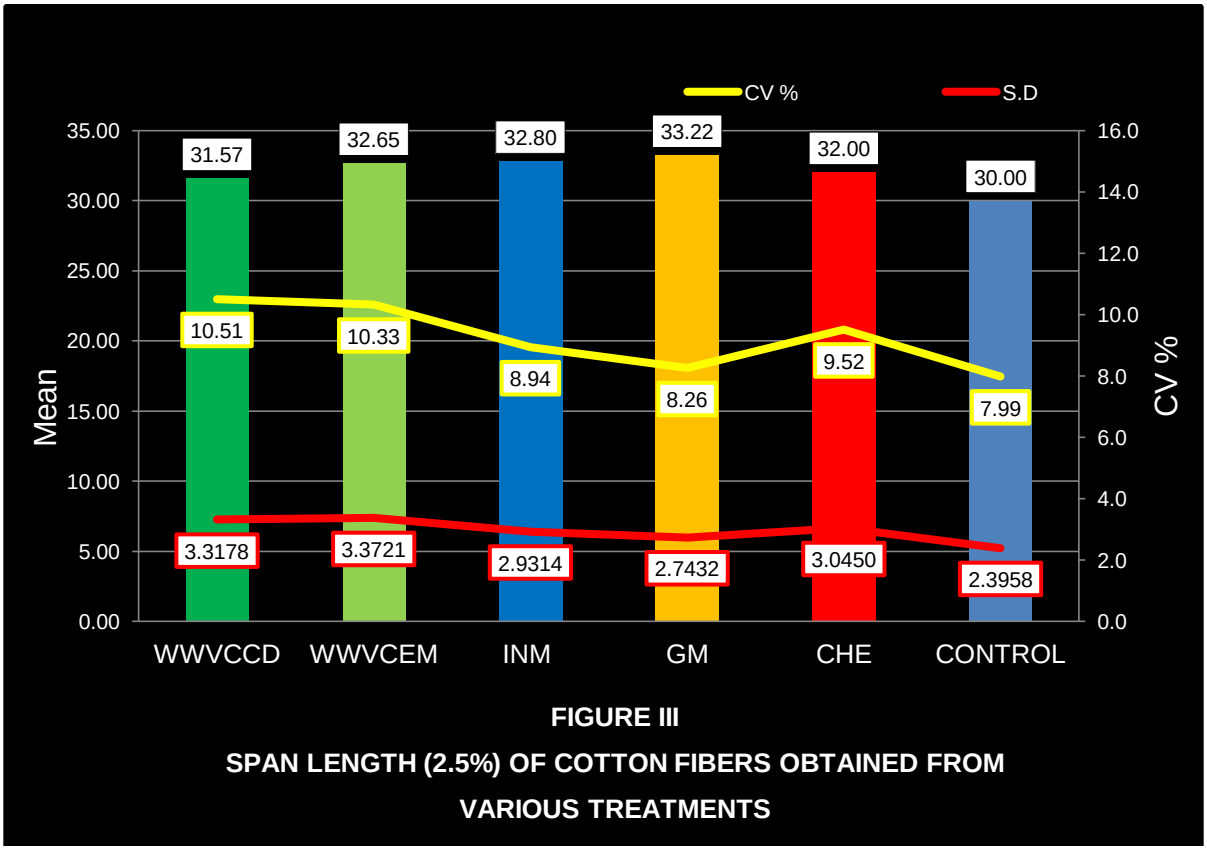


FIGURE III

SPAN LENGTH (2.5%) OF COTTON FIBERS OBTAINED FROM VARIOUS TREATMENTS

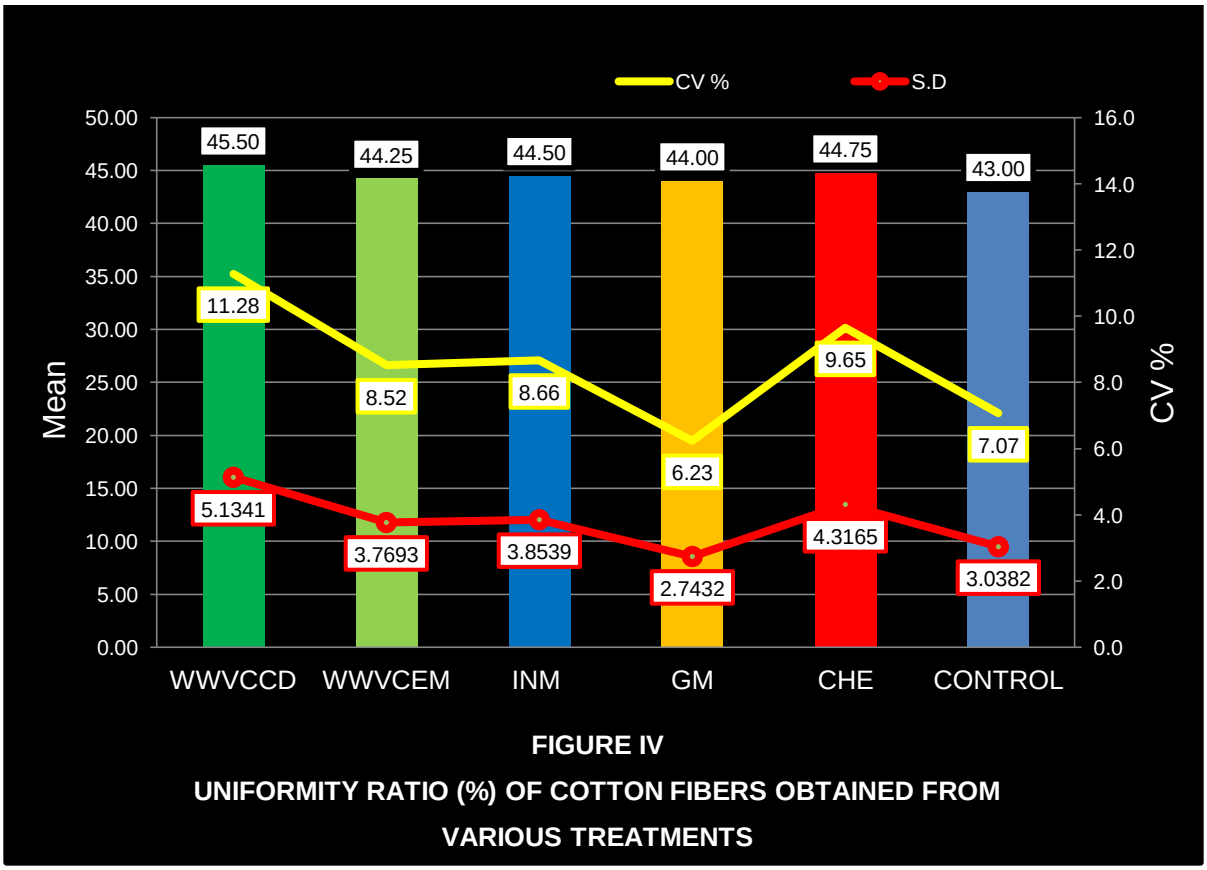


FIGURE IV

UNIFORMITY RATIO (%) OF COTTON FIBERS OBTAINED FROM VARIOUS TREATMENTS

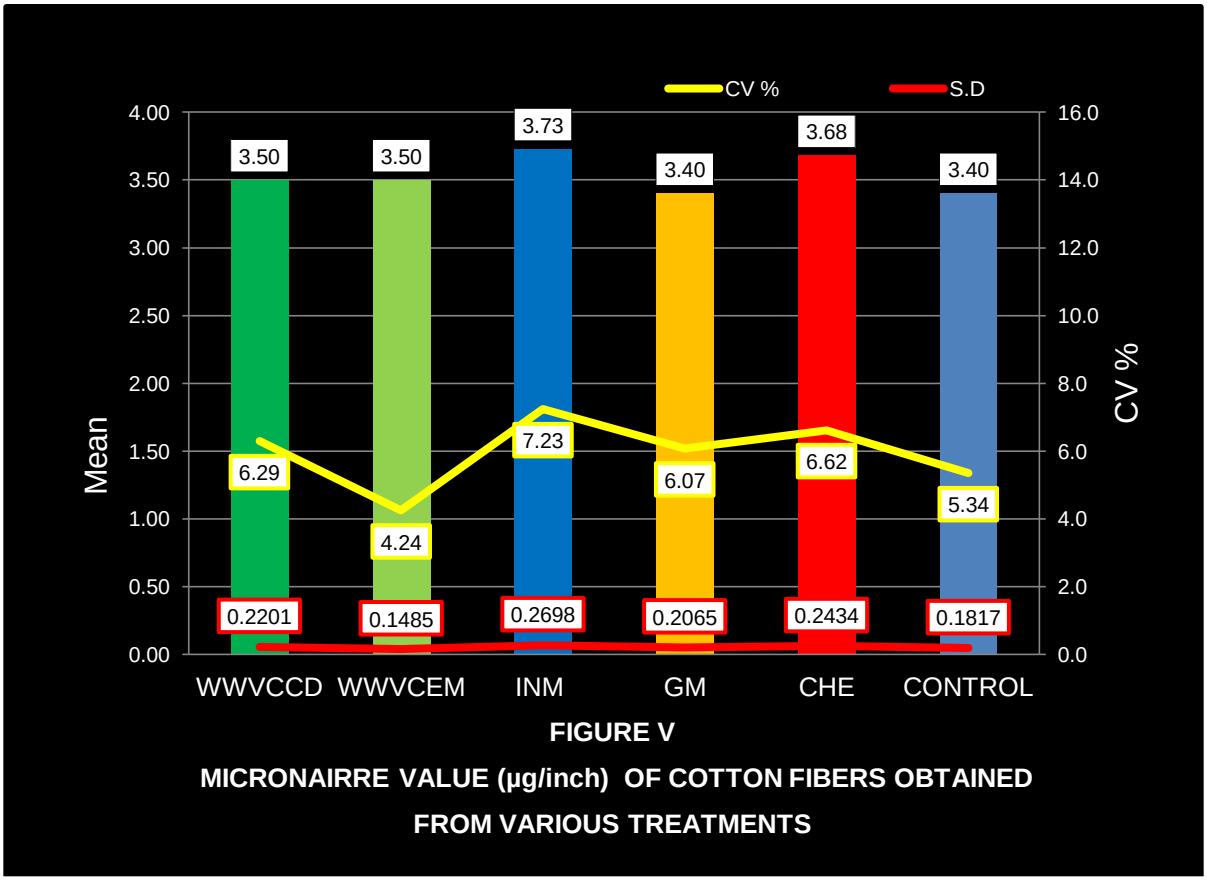


FIGURE V

MICRONAIRRE VALUE (µg/inch) OF COTTON FIBERS OBTAINED FROM VARIOUS TREATMENTS

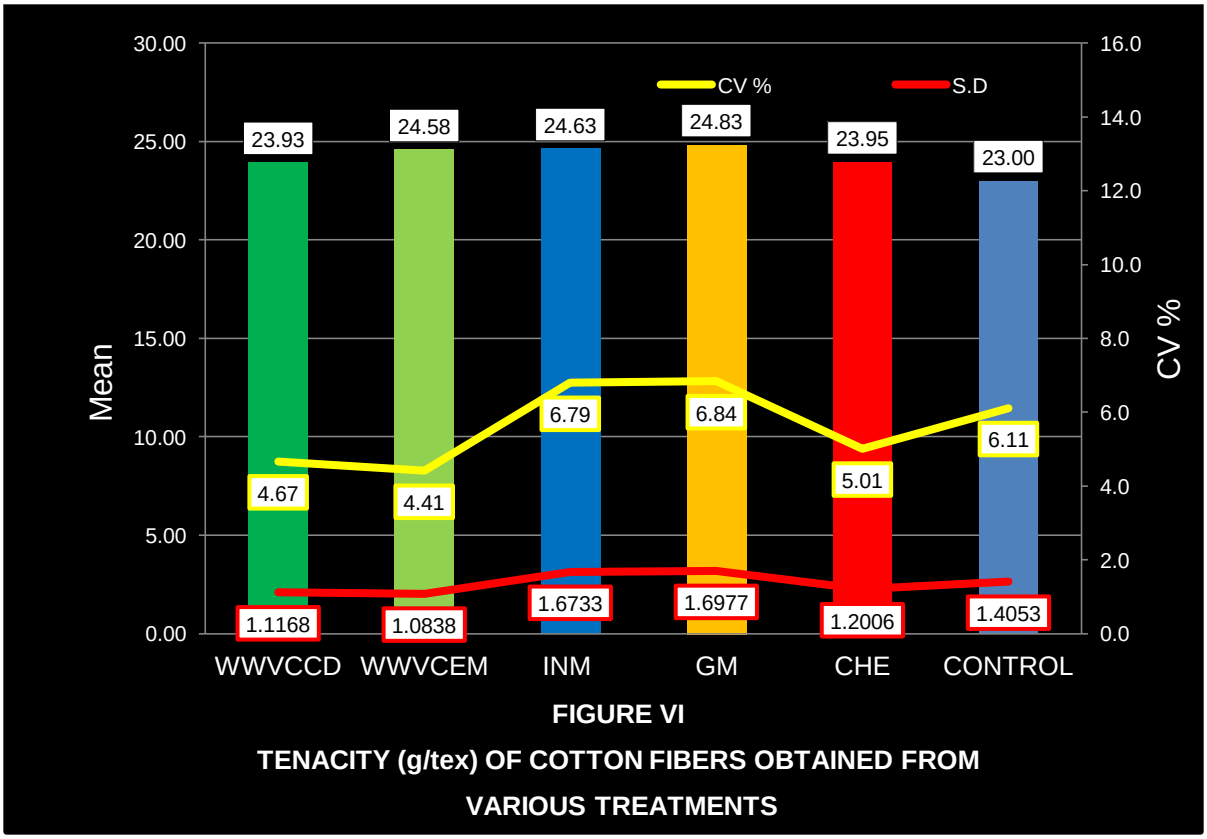


FIGURE VI

TENACITY (g/tex) OF COTTON FIBERS OBTAINED FROM VARIOUS TREATMENTS

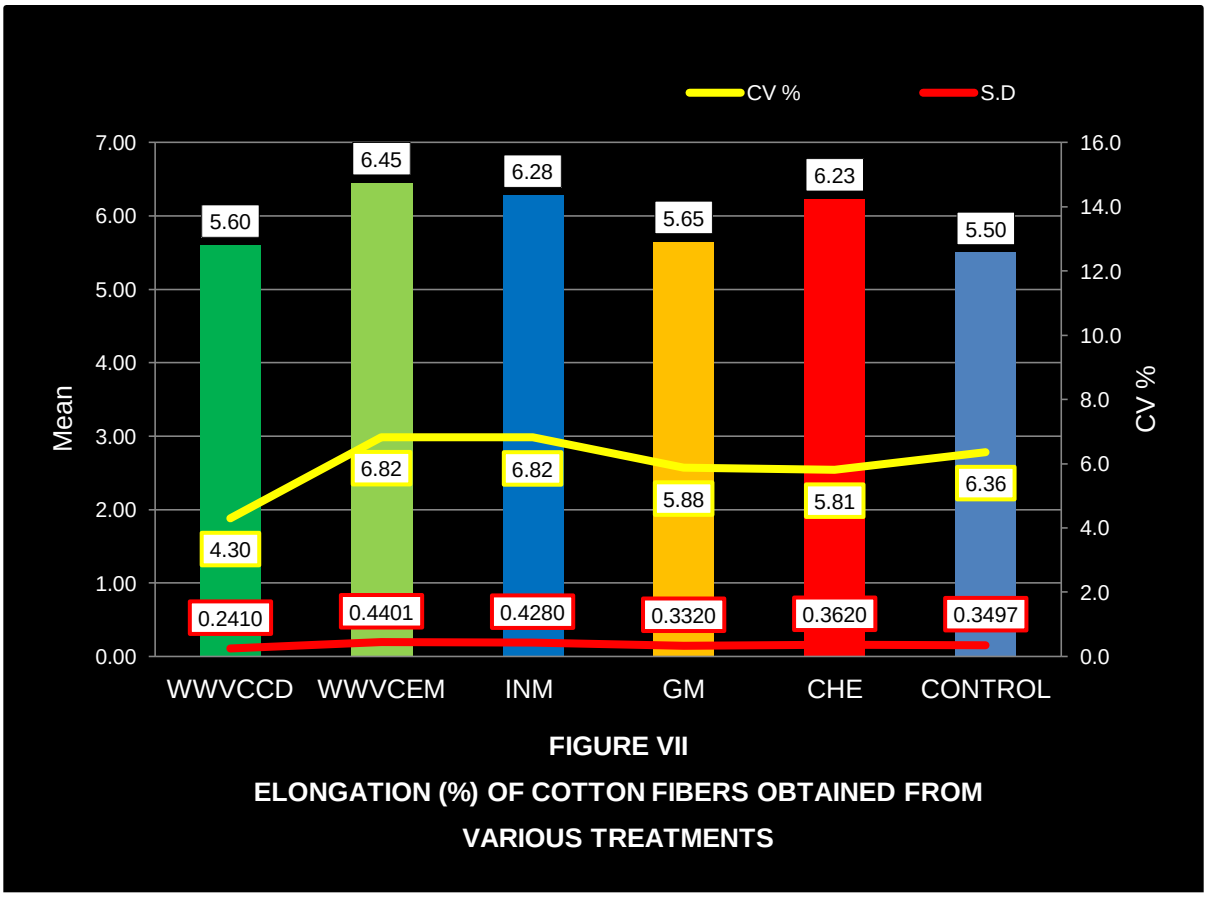


FIGURE VII

ELONGATION (%) OF COTTON FIBERS OBTAINED FROM VARIOUS TREATMENTS

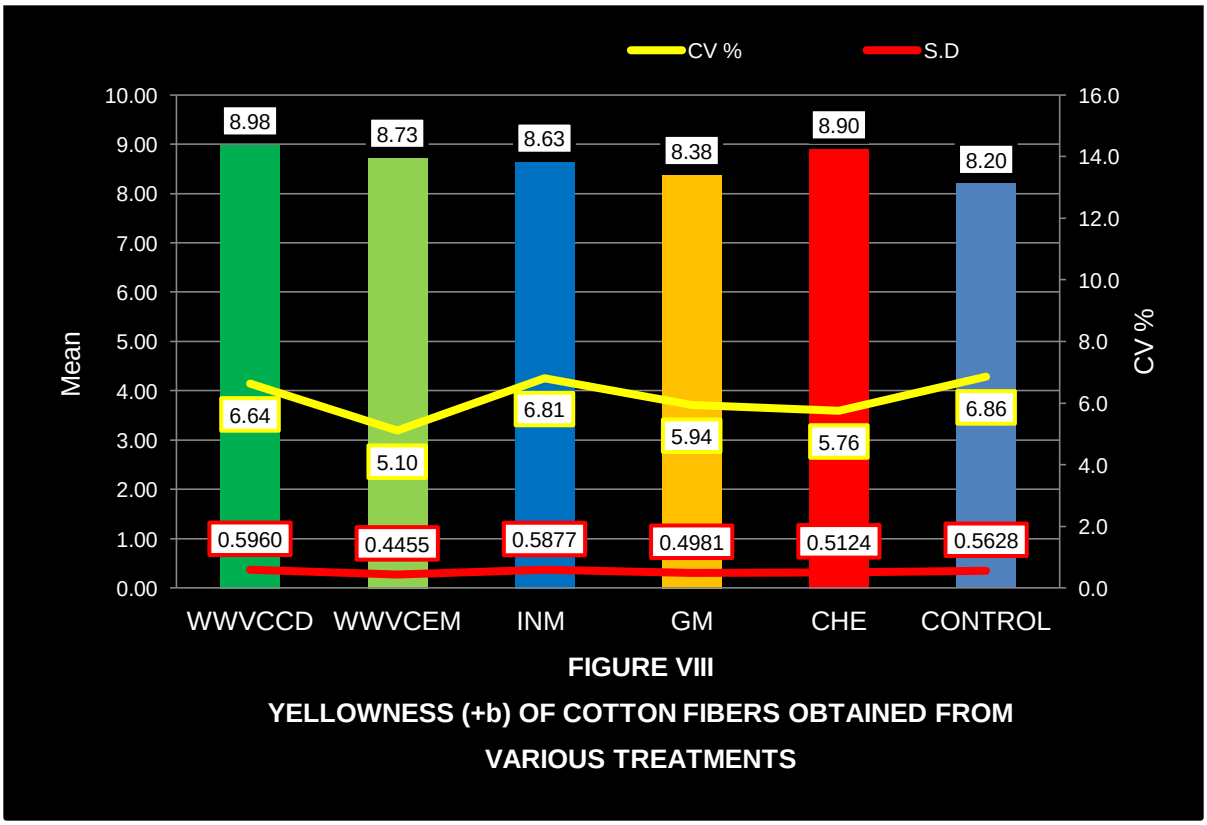


FIGURE VIII

YELLOWNESS (+b) OF COTTON FIBERS OBTAINED FROM VARIOUS TREATMENTS

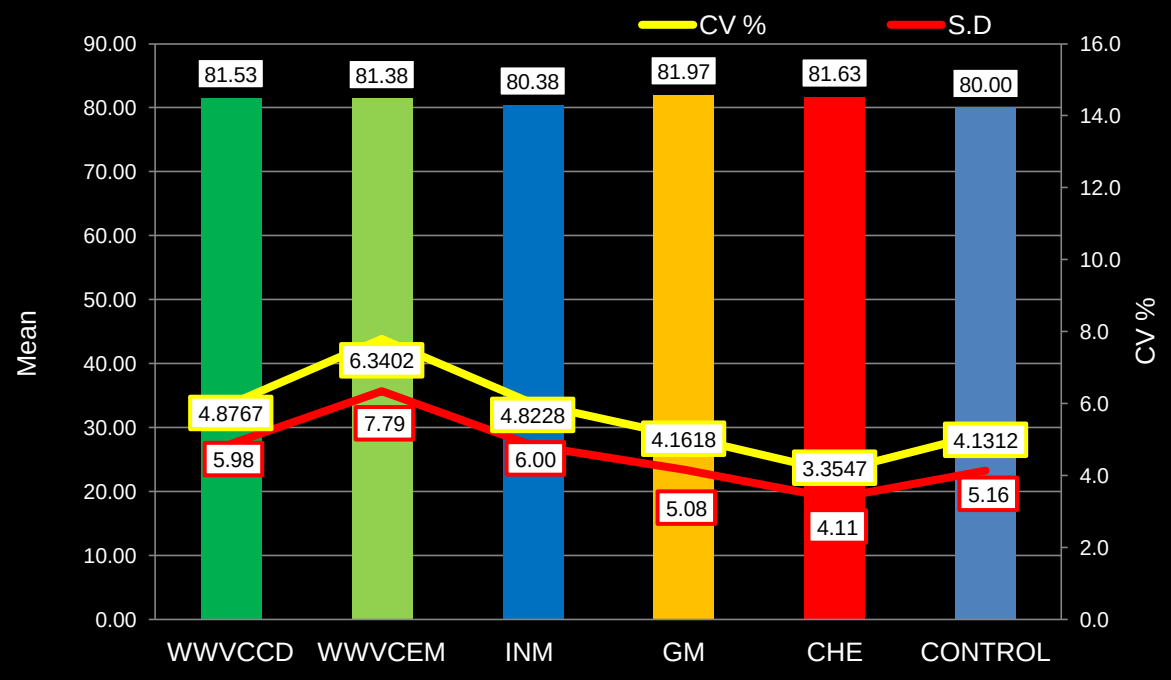


FIGURE IX

BRIGHTNESS INDEX (Rd) OF COTTON FIBERS OBTAINED FROM VARIOUS TREATMENTS

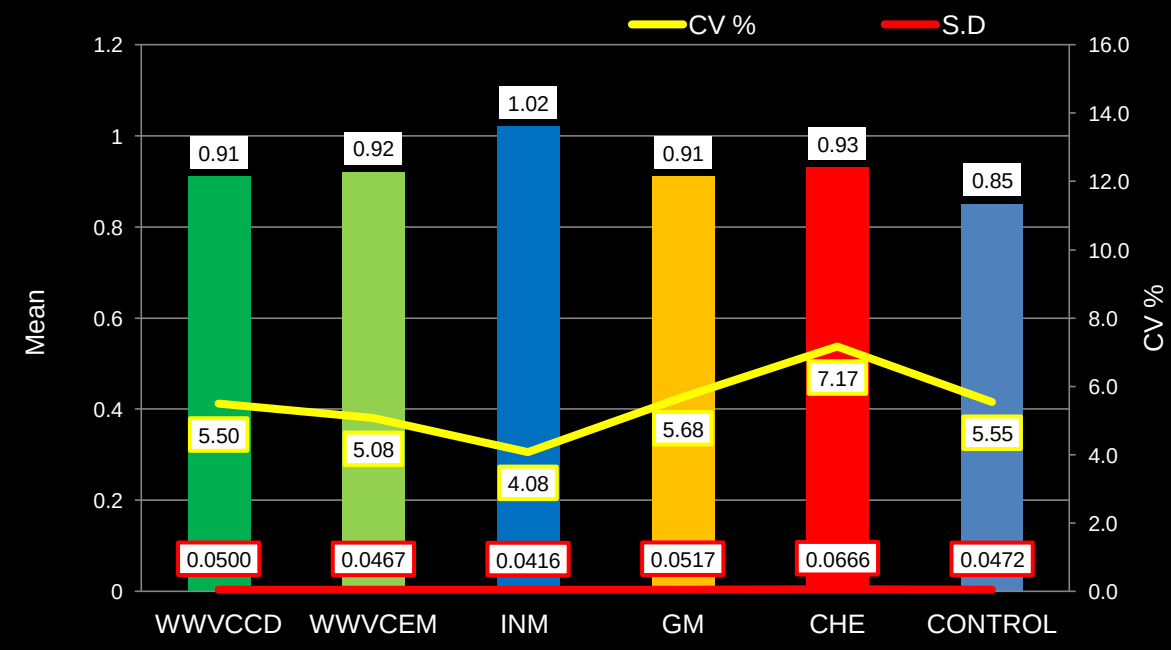


FIGURE X

TRUE MATT (%) OF COTTON FIBERS OBTAINED FROM VARIOUS TREATMENTS

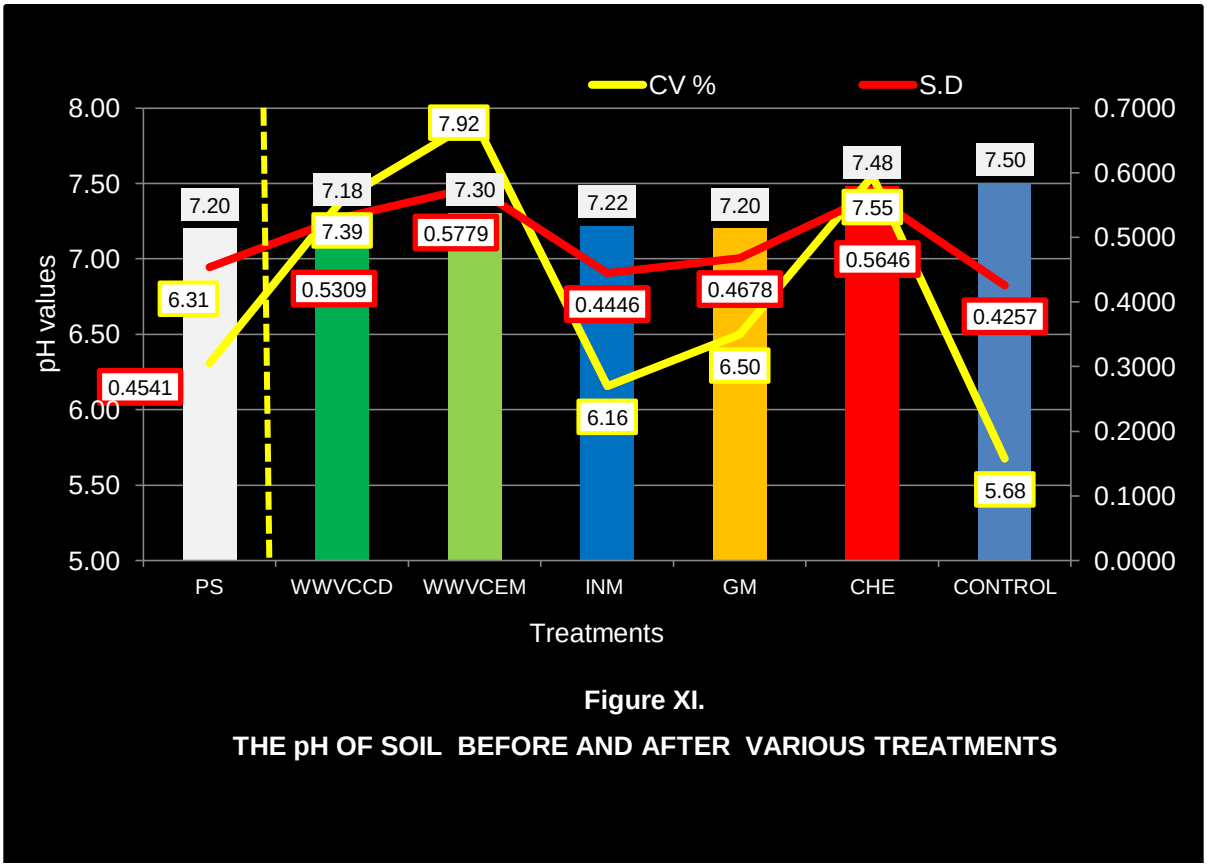


Figure XI.

THE pH OF SOIL BEFORE AND AFTER VARIOUS TREATMENTS

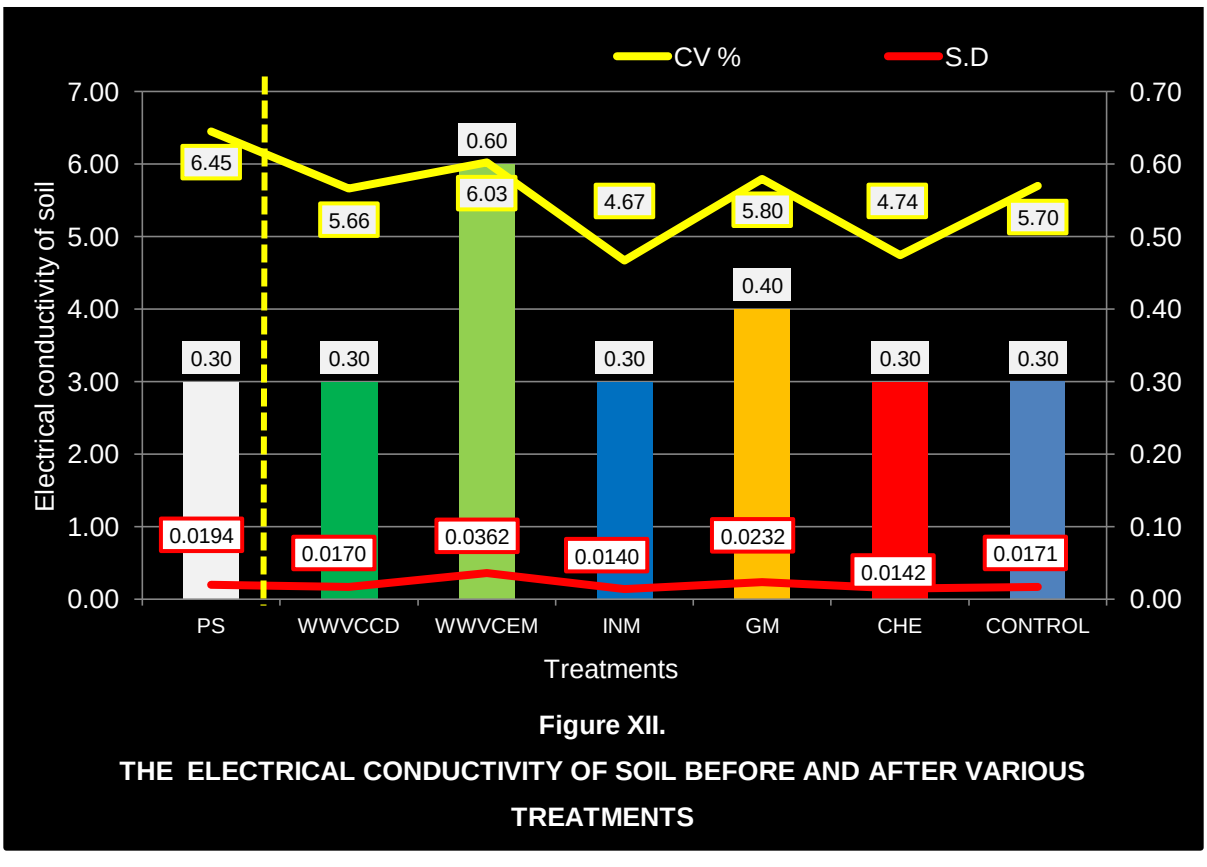


Figure XII.

THE ELECTRICAL CONDUCTIVITY OF SOIL BEFORE AND AFTER VARIOUS TREATMENTS

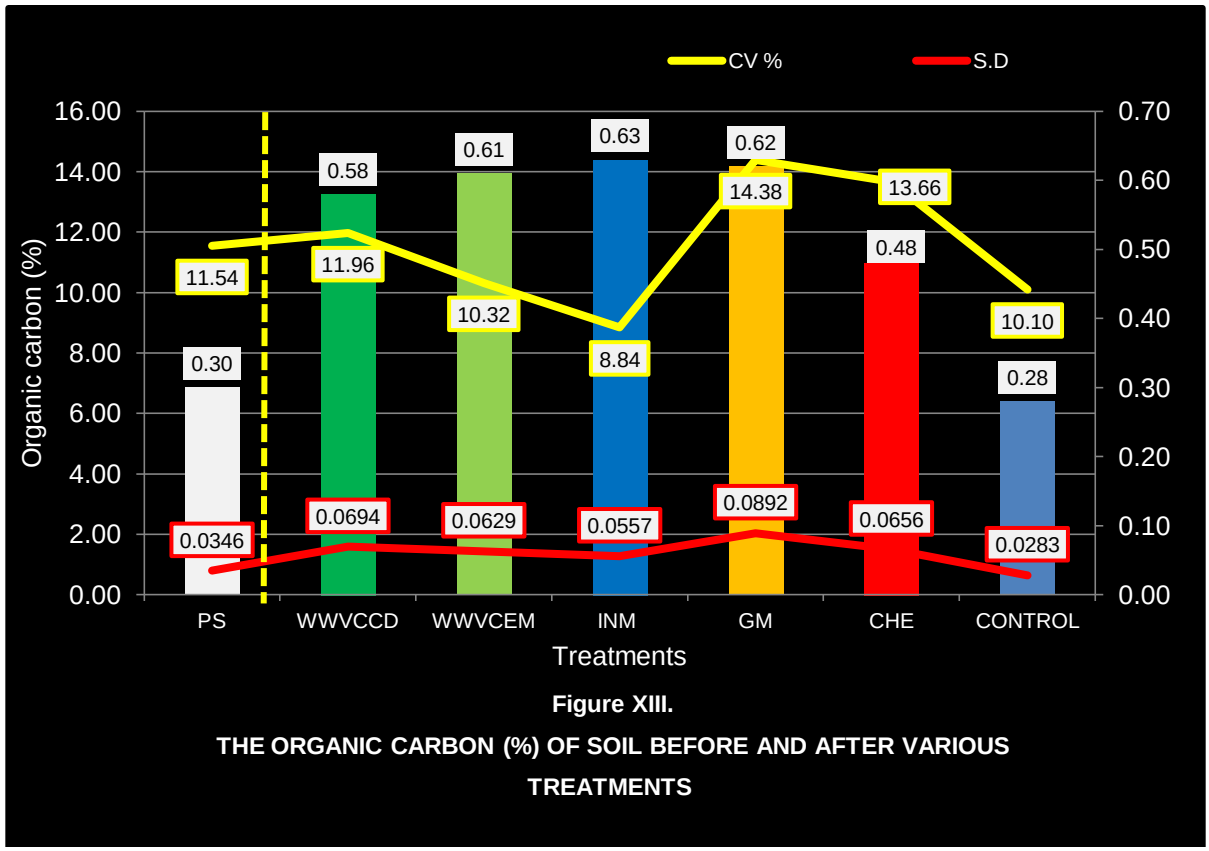


Figure XIII.

THE ORGANIC CARBON (%) OF SOIL BEFORE AND AFTER VARIOUS TREATMENTS

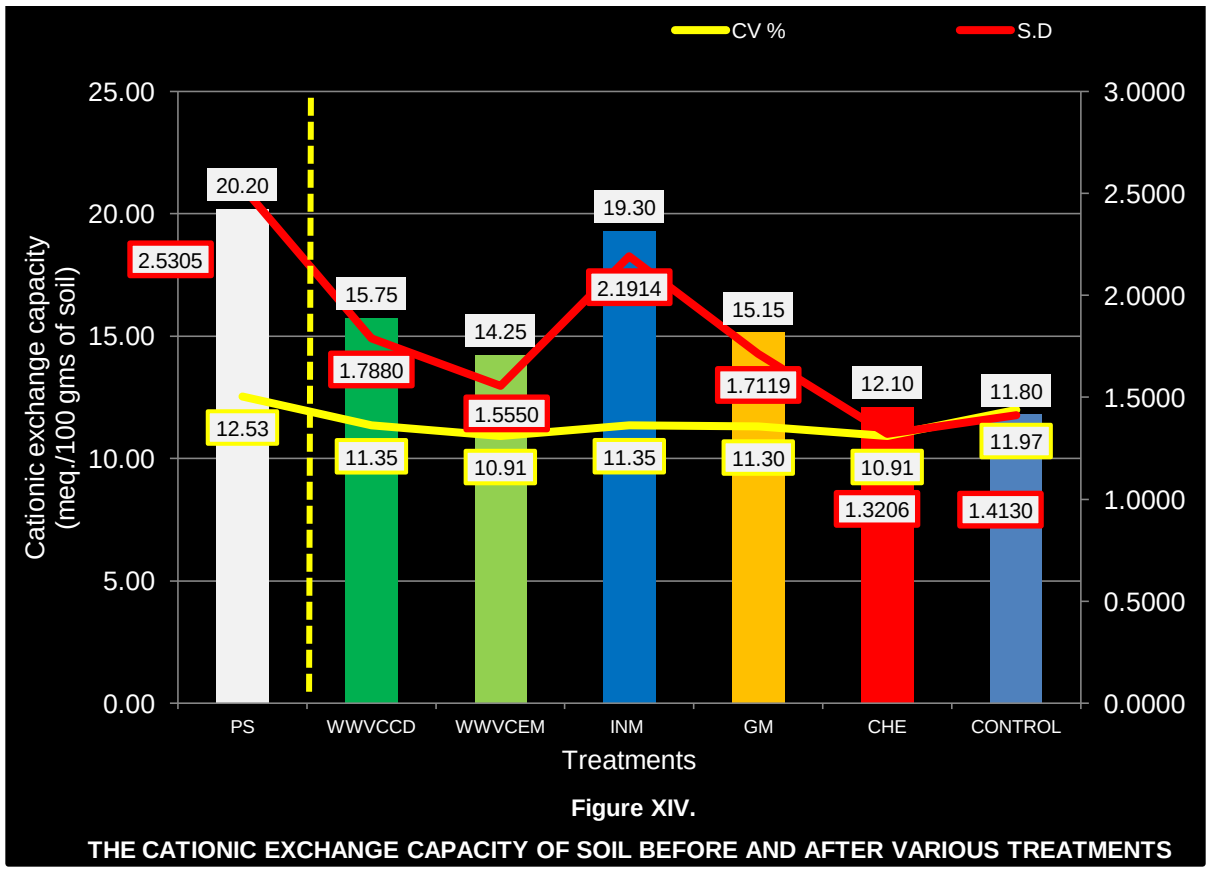


Figure XIV.

THE CATIONIC EXCHANGE CAPACITY OF SOIL BEFORE AND AFTER VARIOUS TREATMENTS

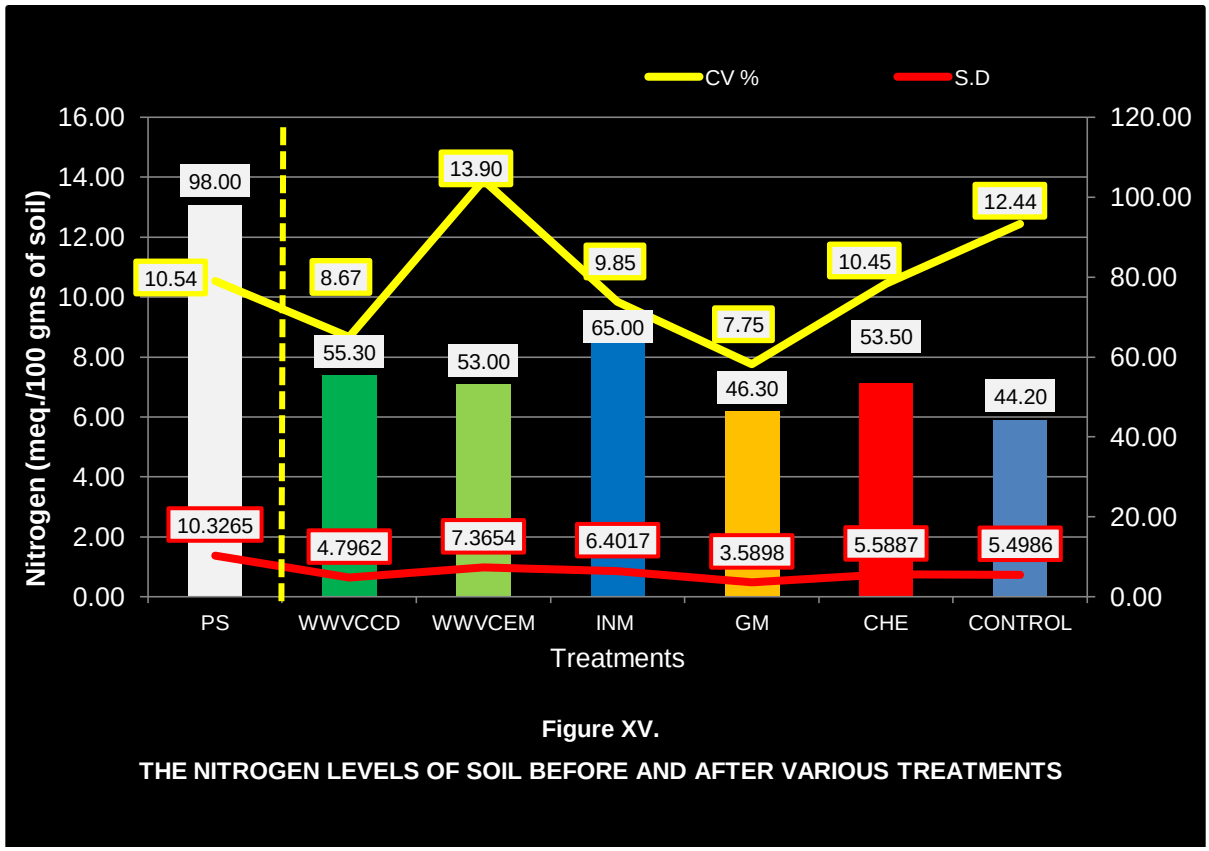


Figure XV.

THE NITROGEN LEVELS OF SOIL BEFORE AND AFTER VARIOUS TREATMENTS

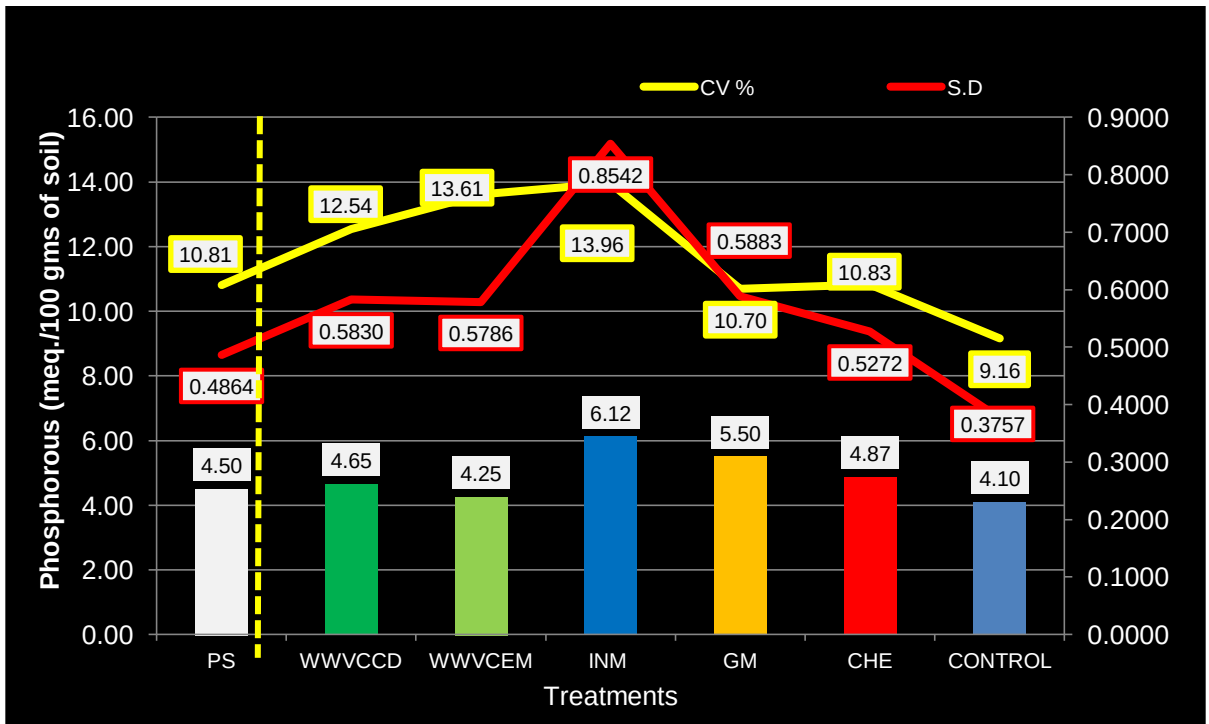


Figure XVI.

THE PHOSPHOROUS LEVELS OF SOIL BEFORE AND AFTER VARIOUS TREATMENTS

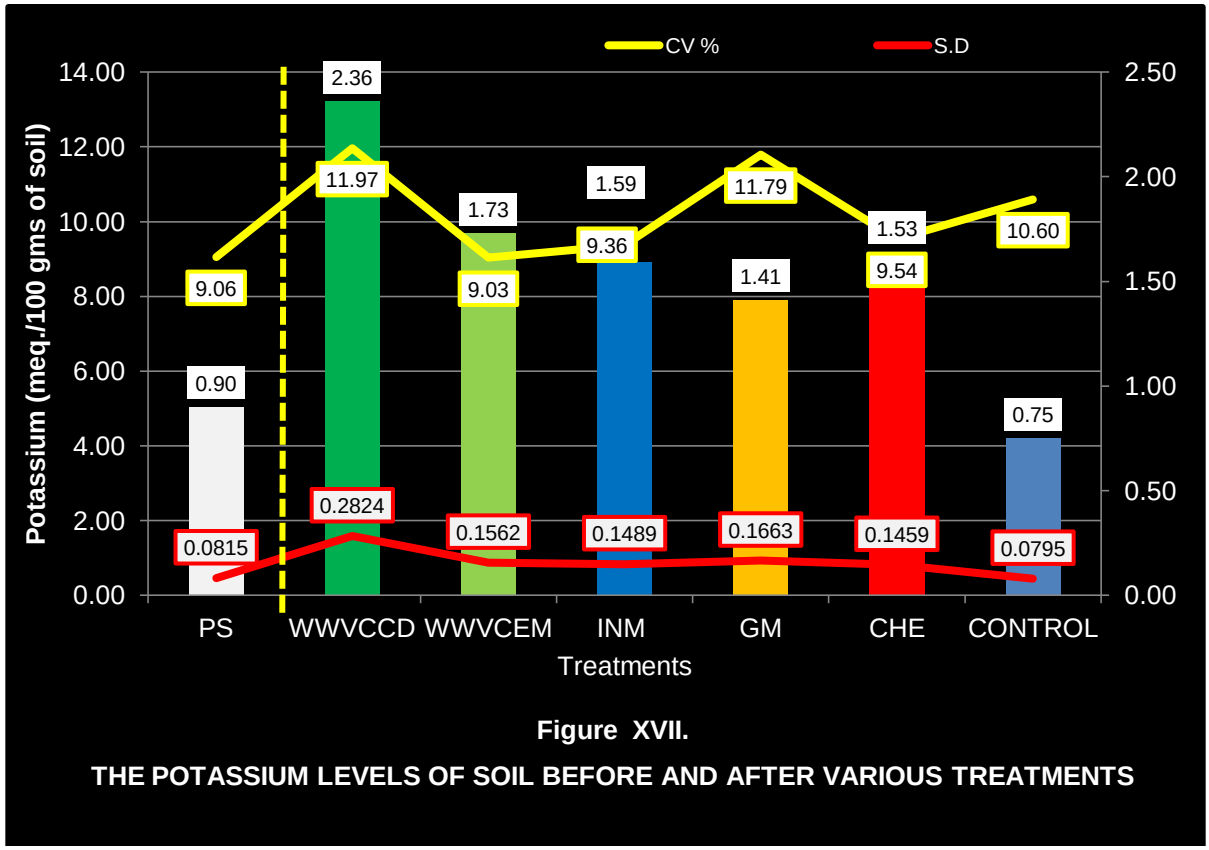


Figure XVII.

THE POTASSIUM LEVELS OF SOIL BEFORE AND AFTER VARIOUS TREATMENTS

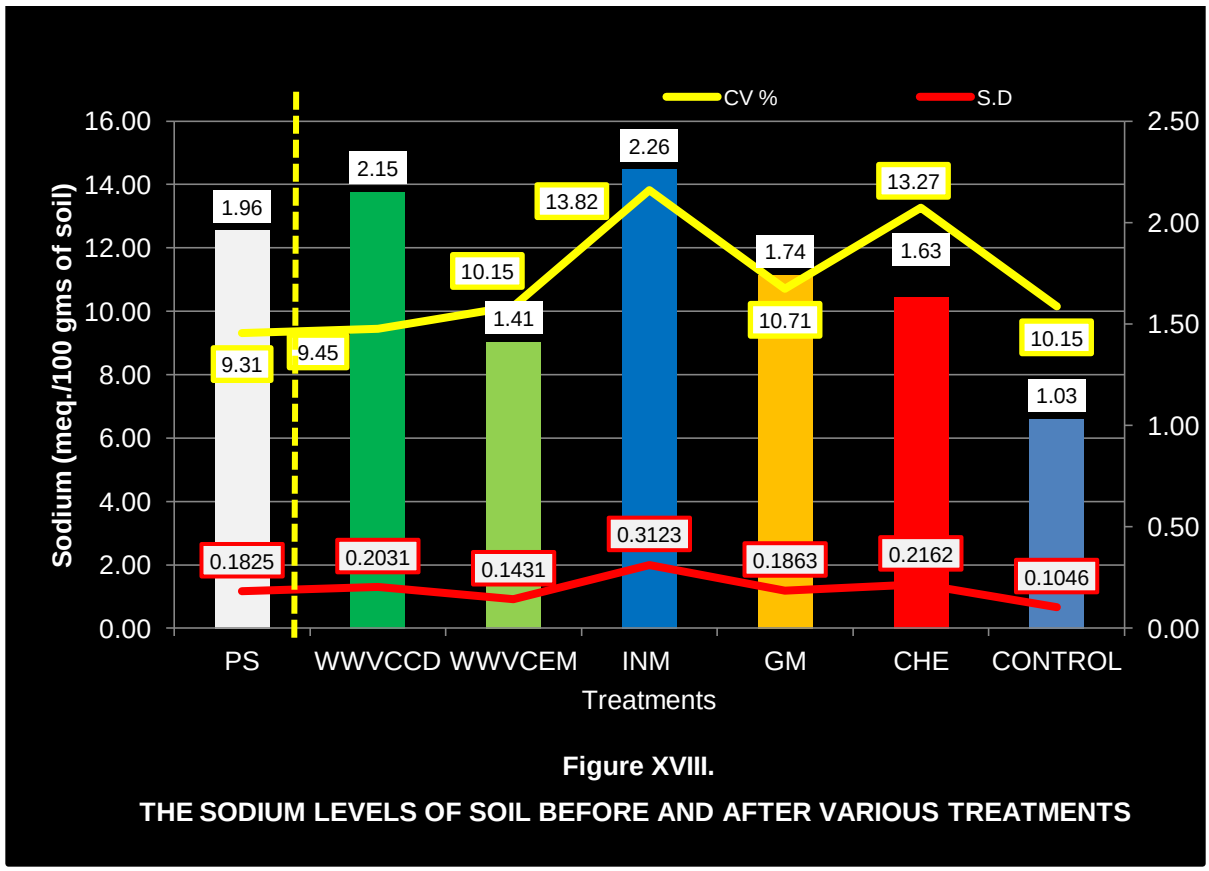


Figure XVIII.

THE SODIUM LEVELS OF SOIL BEFORE AND AFTER VARIOUS TREATMENTS

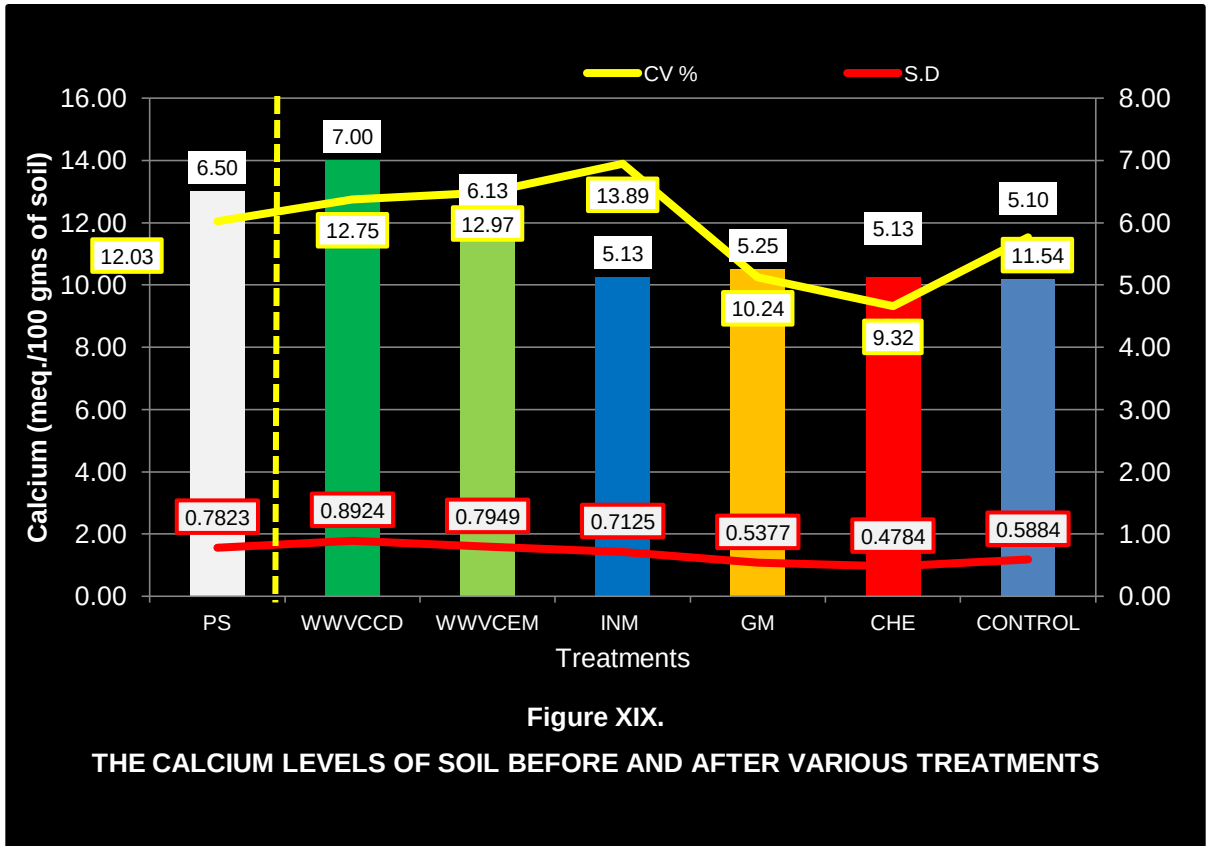


Figure XIX.

THE CALCIUM LEVELS OF SOIL BEFORE AND AFTER VARIOUS TREATMENTS

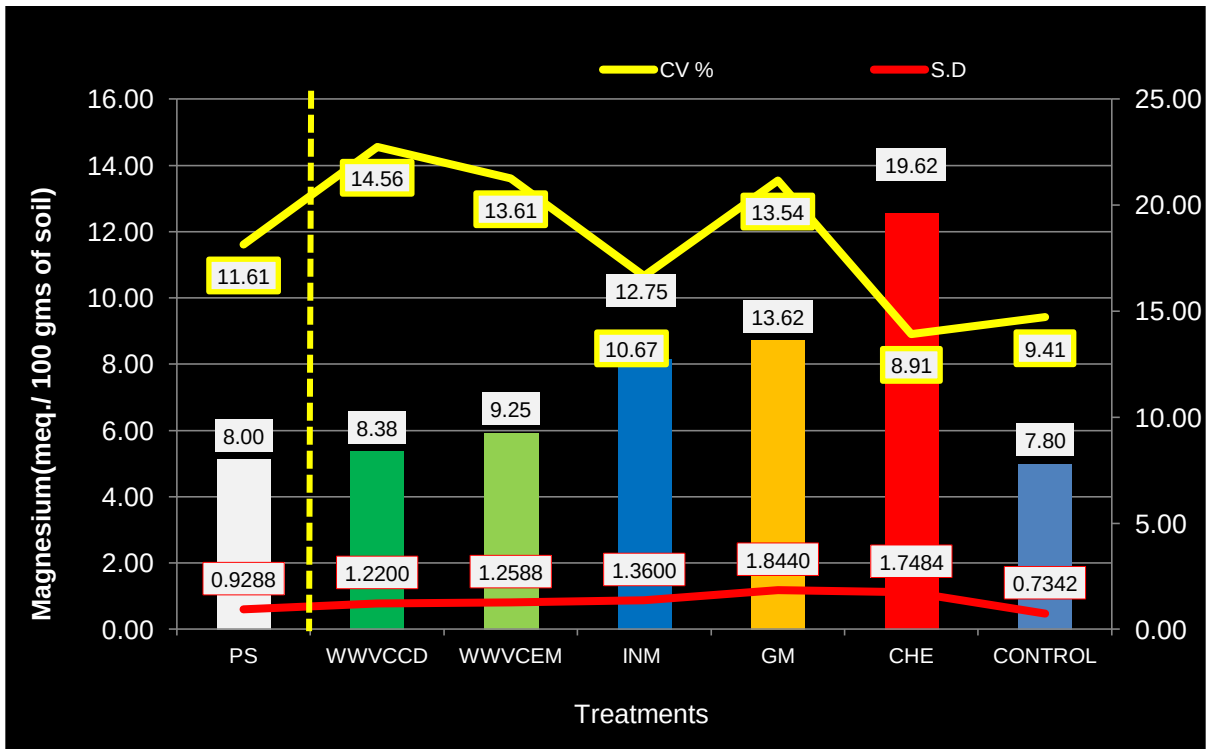


Figure XX.

THE MAGNESIUM LEVELS OF SOIL BEFORE AND AFTER VARIOUS TREATMENTS

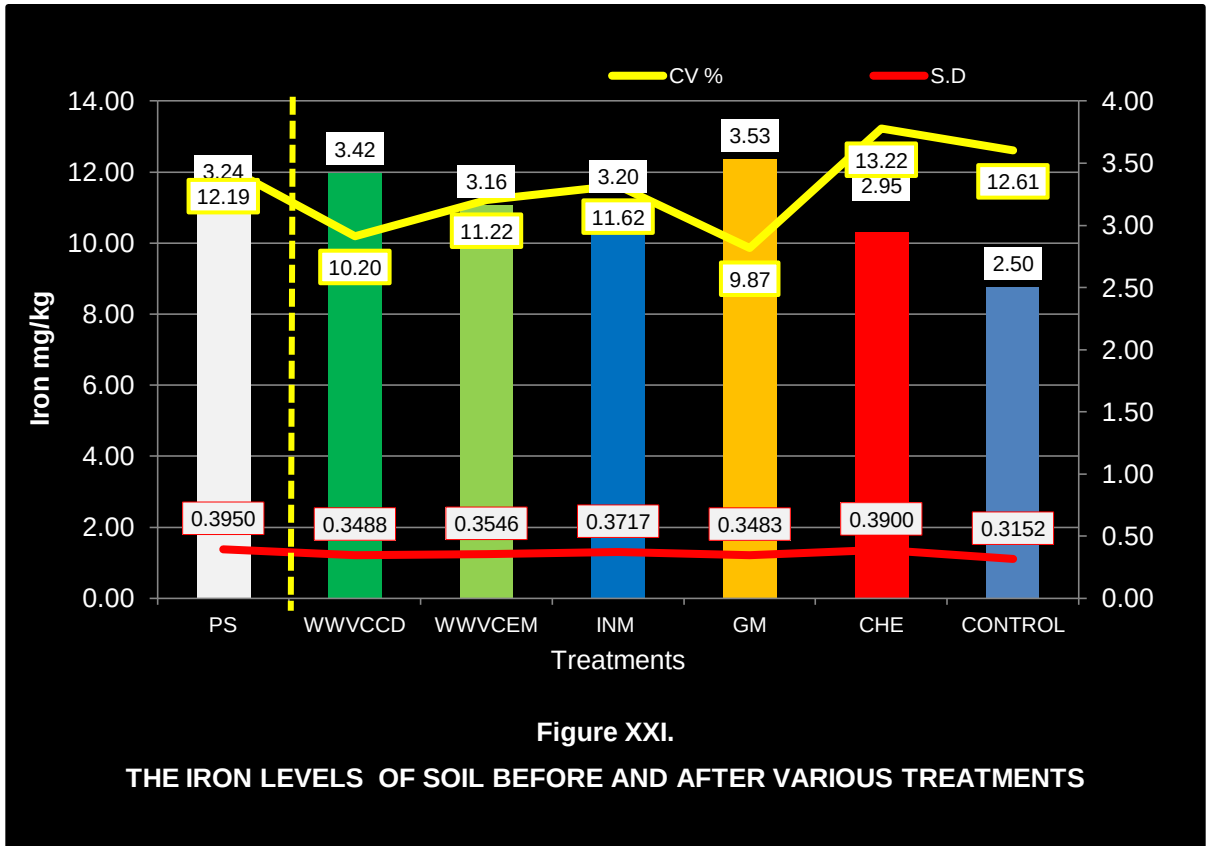


Figure XXI.

THE IRON LEVELS OF SOIL BEFORE AND AFTER VARIOUS TREATMENTS

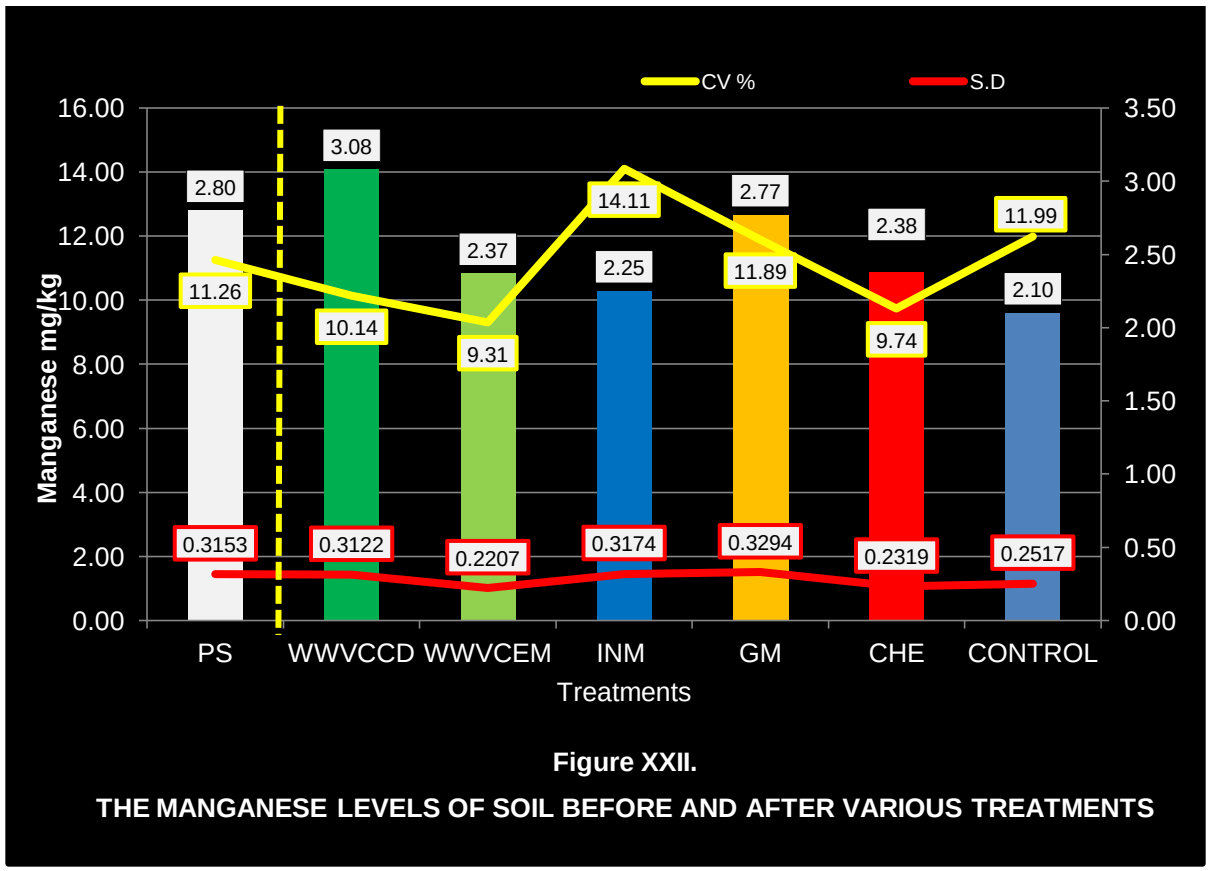


Figure XXII.

THE MANGANESE LEVELS OF SOIL BEFORE AND AFTER VARIOUS TREATMENTS

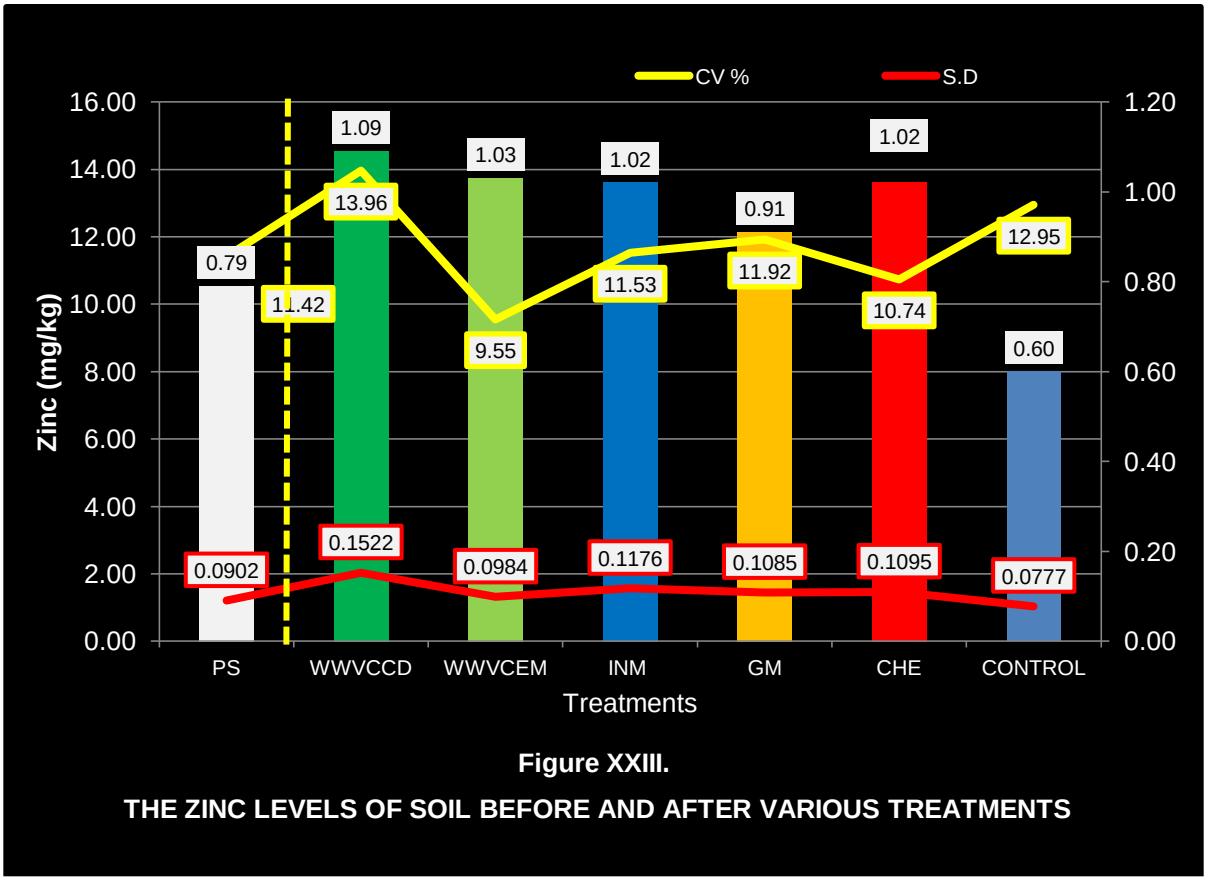


Figure XXIII.

THE ZINC LEVELS OF SOIL BEFORE AND AFTER VARIOUS TREATMENTS

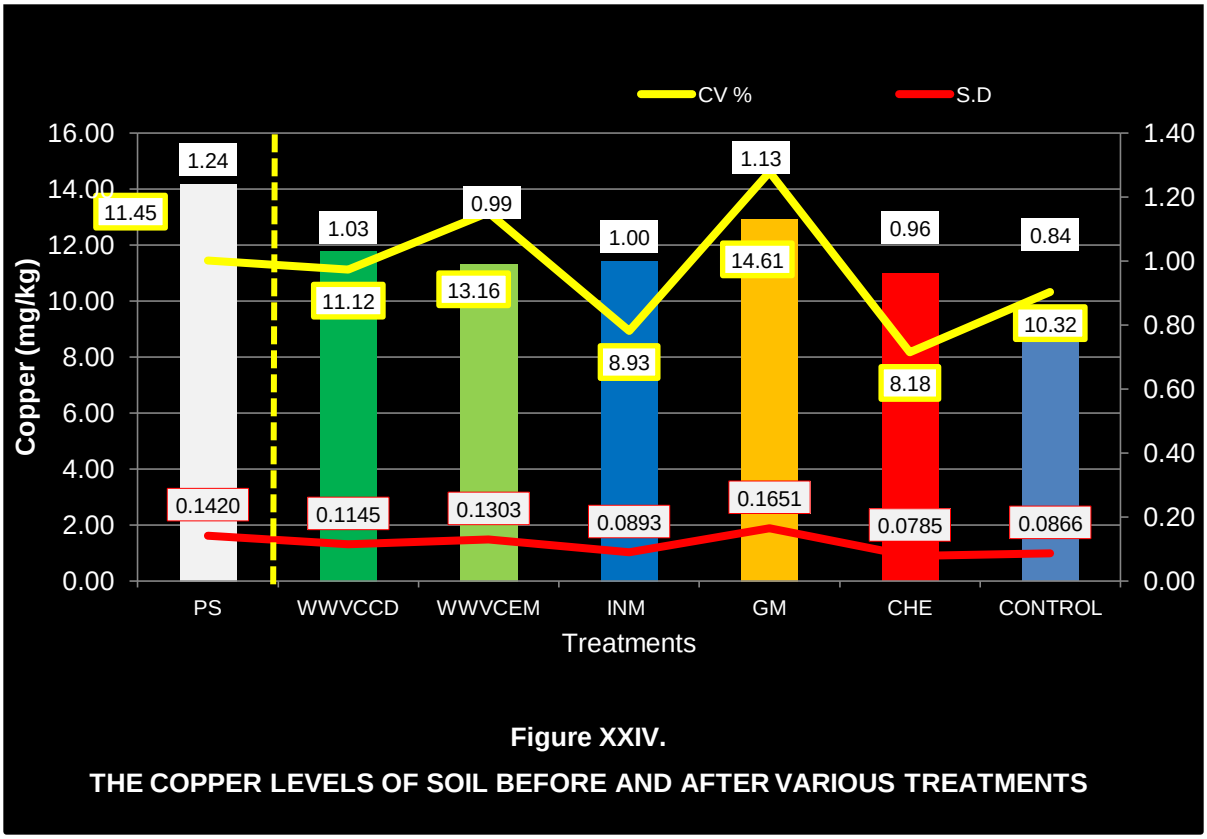
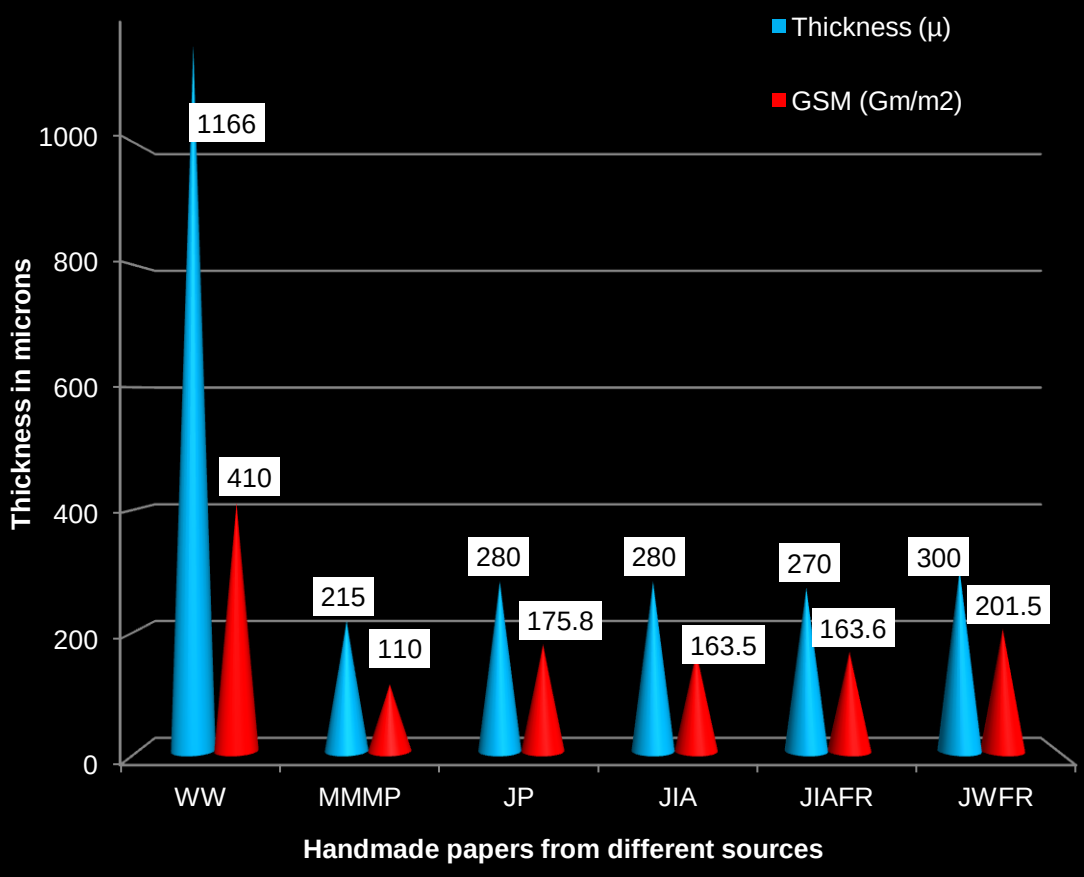


Figure XXIV.

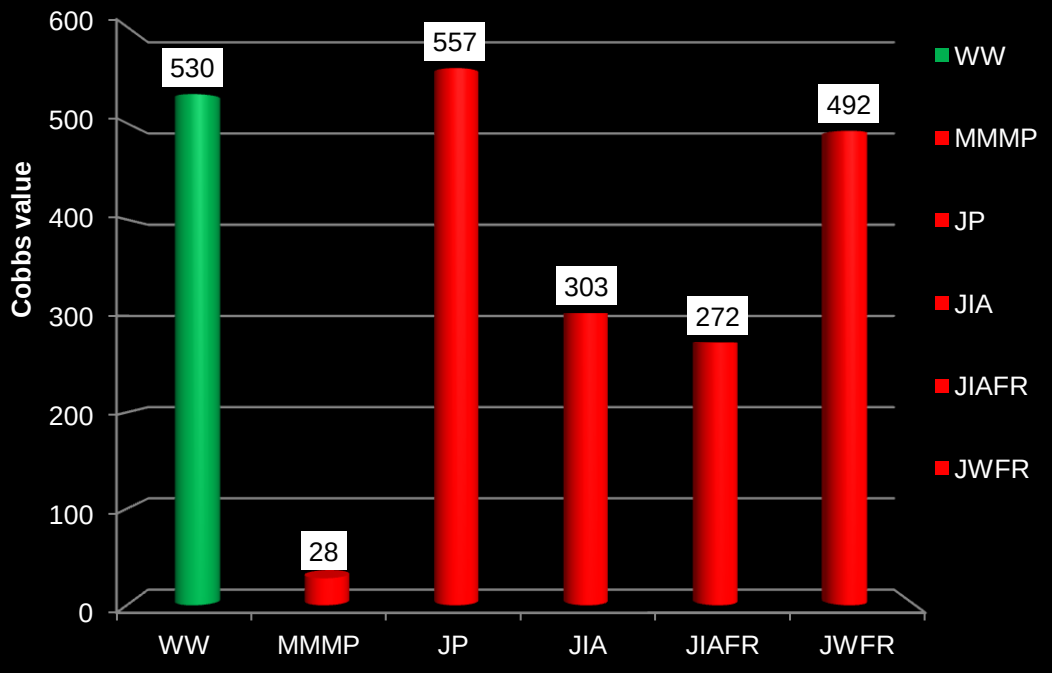
THE COPPER LEVELS OF SOIL BEFORE AND AFTER VARIOUS TREATMENTS



WW - Willow dust paper; **MMMP-** Mill made mulberry paper; **JP -** Jute paper; **JIA-** Jute with internal additive; **JIAFR** - Jute paper with internal additive and fiber reinforced; **JWFR -** Jute paper with external additive as wax and Fiber reinforced

FIGURE XXV

THE THICKNESS AND GSM (WEIGHT) OF HANDMADE PAPER FROM WILLOW WASTE AND SIMILAR PAPERS

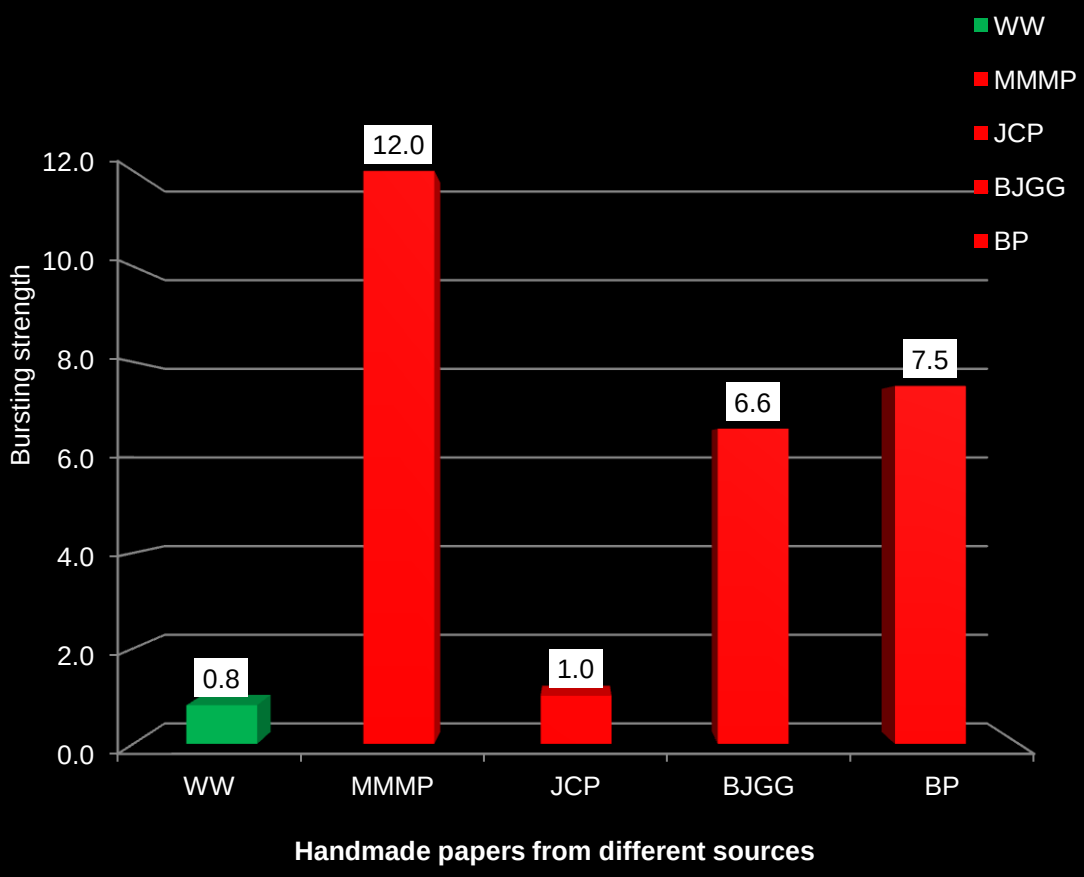


Handmade papers from different sources

WW - Willow dust paper; **MMMP-** Mill made mulberry paper; **JP -** Jute paper; **JIA-** Jute with internal additive; **JIAFR** - Jute paper with internal additive and fiber reinforced; **JWFR -** Jute paper with external additive as wax and Fiber reinforced.

FIGURE XXVI

THE COBB'S VALUE OF SELECTED PAPER VARITIES



WW - Willow waste; **MMMP** – Mill made mulberry paper; **JCP**- paper from jute caddies without resin; **BJGG** - Bleached jute paper with guar gum as additive; **BP** - Paper from Banana

FIGURE XXVII

THE BURST STRENGTH OF SELECTED PAPER VARIETIES

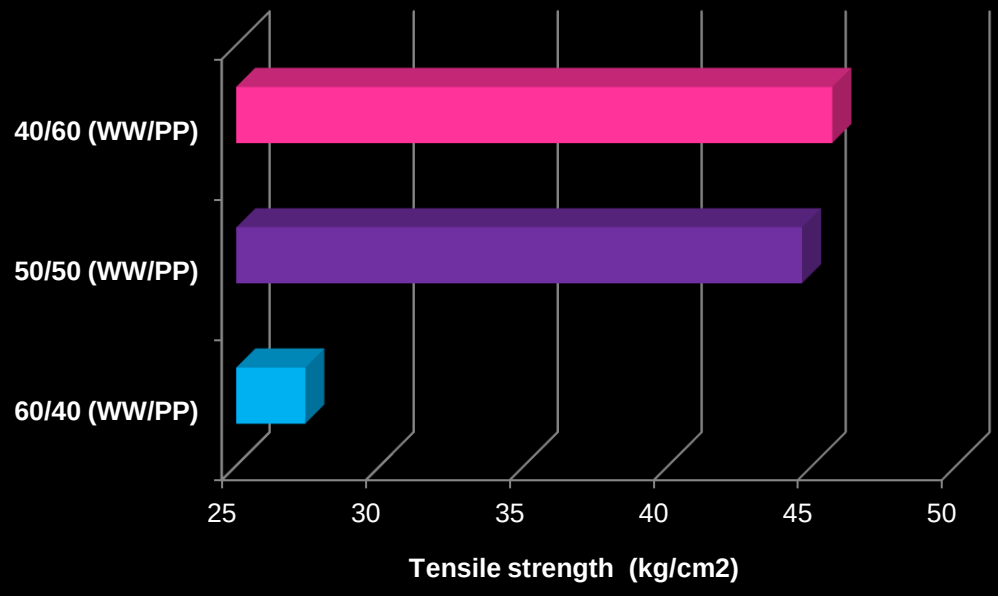


FIGURE XXVIII

TENSILE STRENGTH OF WILLOW WASTE COMPOSITES

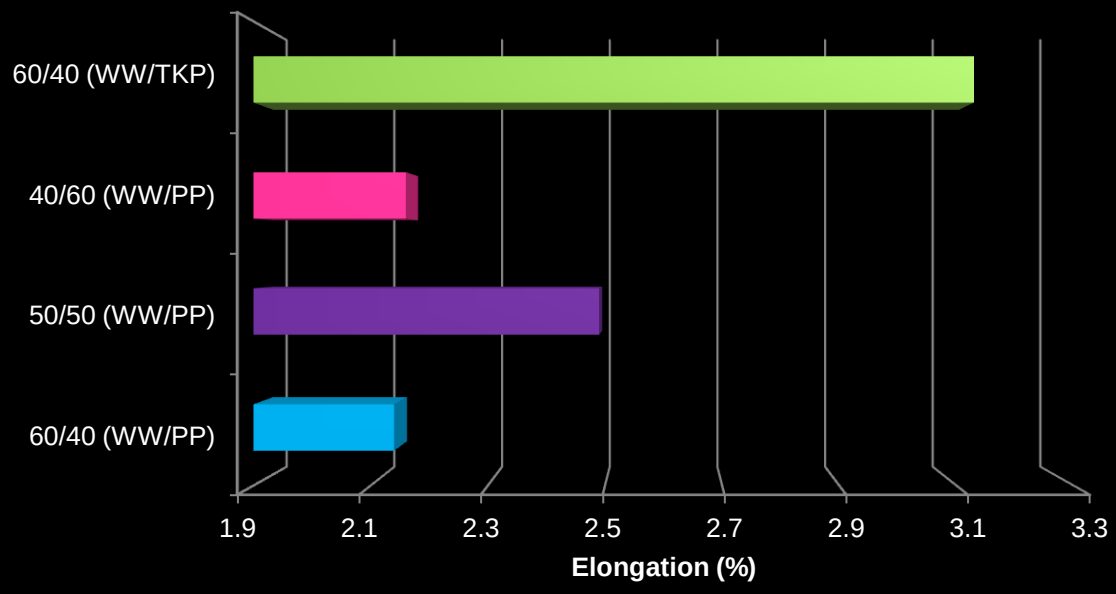


FIGURE XXIX

ELONGATION OF WILLOW WASTE COMPOSITE USING SYNTHETIC RESIN (PP) AND NATURAL RESIN