

INTRODUCTION

INTRODUCTION

Many researches were directed to study air and water pollution while little attentions were directed to soil pollution.

Several thousand tons of pesticide residues end up in the soil whether they are applied directly to the soil or to crops from which they are washed into the soil by rain fall or after application.

There is a question whether its repeated use on crops might result in the accumulation of harmful residues in the soil ? . And what is the side effect of these residues on plants? .

Such accumulation of insecticide residues affect the crops. Not only may root systems be affected by those residues but some may be translocated into the crop tissue and cause considerable changes in flavour.

For that the author directed his research work to study the side effect of these pesticide residues on the growth of onion. The effect on growth of onion roots, green parts and flowering were also studied.

Some experiments were directed to study the direct effect of these residues on meristemic root cells

Cytological and cytogenetic effects were also studied under laboratory conditions, to show their effects on mitotic index , and mitotic abnormalities .

Experiments were conducted also to test their side effect on RNA and DNA Synthesis in the root tip cells.

Under field conditions , experiments were conducted to find the effect of some insecticide residues on the yield of a winter crop (Broad bean) and a summer crop (cotton).