

# CONTENT

Items	Page
INTRODUCTION.....	1
REVIEW OF LITERATURE .....	3
MATERIALS AND METHODS .....	19
RESULTS AND DISCUSSION .....	33
<b>1. Greenhouse Experiment .....</b>	<b>33</b>
<b>1.1. Quantitative Evaluation of Plant Reaction .....</b>	<b>33</b>
1.1.a. Number of galls.....	33
1.1.b. Number of eggs.....	43
<b>1.2. Qualitative Evaluation of Plant Reaction .....</b>	<b>49</b>
<b>2. Field Experiment .....</b>	<b>50</b>
2.1. Root phenols content .....	50
2.2. Leaf chlorophyll content .....	62
2.3. Plant total yield .....	68
2.4. Detached leaves fresh weight/plant .....	72
2.5. Root fresh weight/plant .....	82
<b>Correlation Study .....</b>	<b>88</b>
<b>3. Bioassay Experiment .....</b>	<b>93</b>
<b>4. Acid Phosphatase Isozyme Analysis Experiment.....</b>	<b>95</b>
SUMMARY .....	98
REFERENCES.....	109
ARABIC SUMMARY .....	٩٨